

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: P950689

Luminaire Tested: **GLAN-SB5A-827-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950689  
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-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20635 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

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

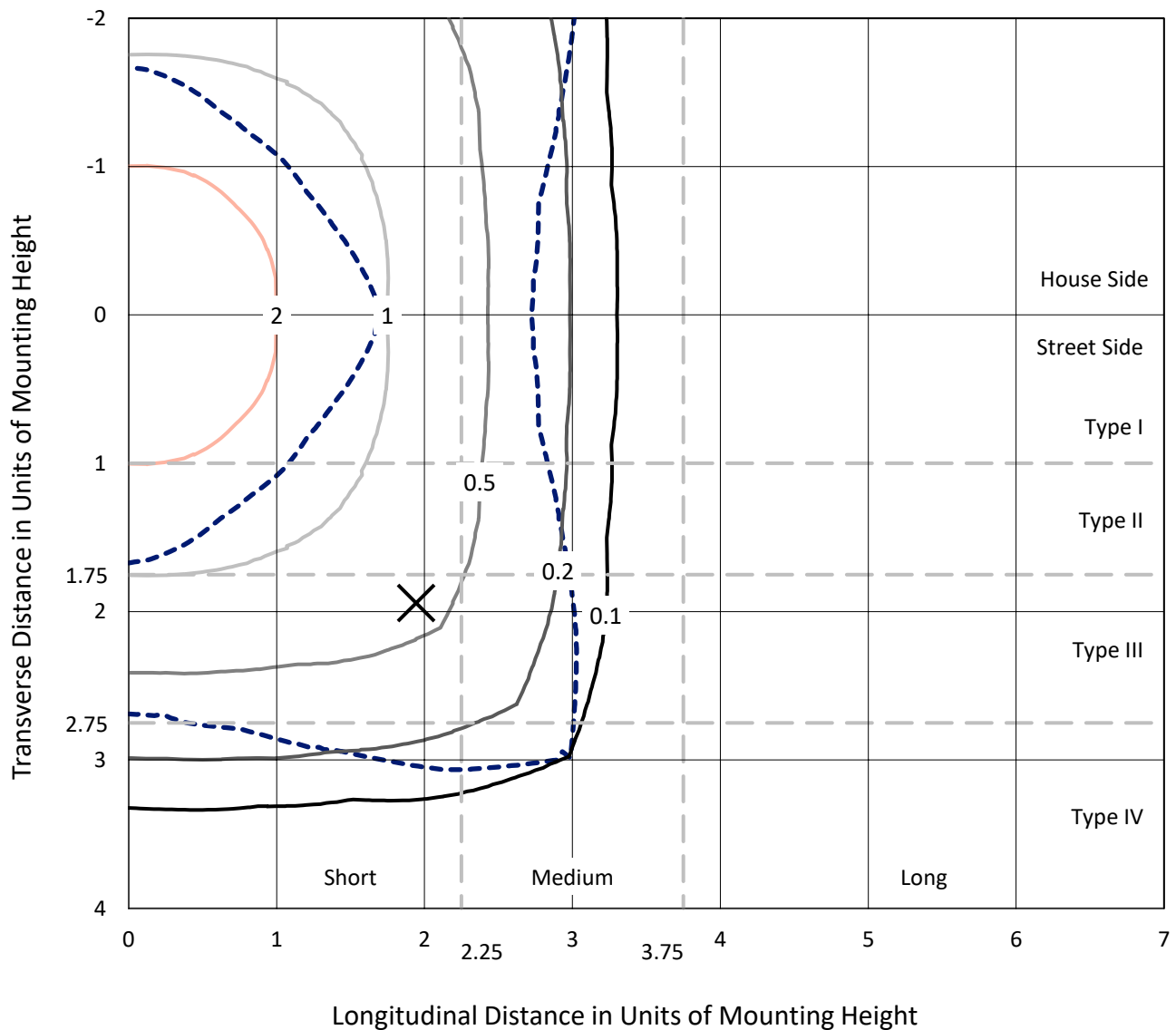


REPORT NUMBER: P950689

CATALOG NUMBER: GLAN-SB5A-827-U-5MQ

## Iso-Footcandle Lines of Horizontal Illumination

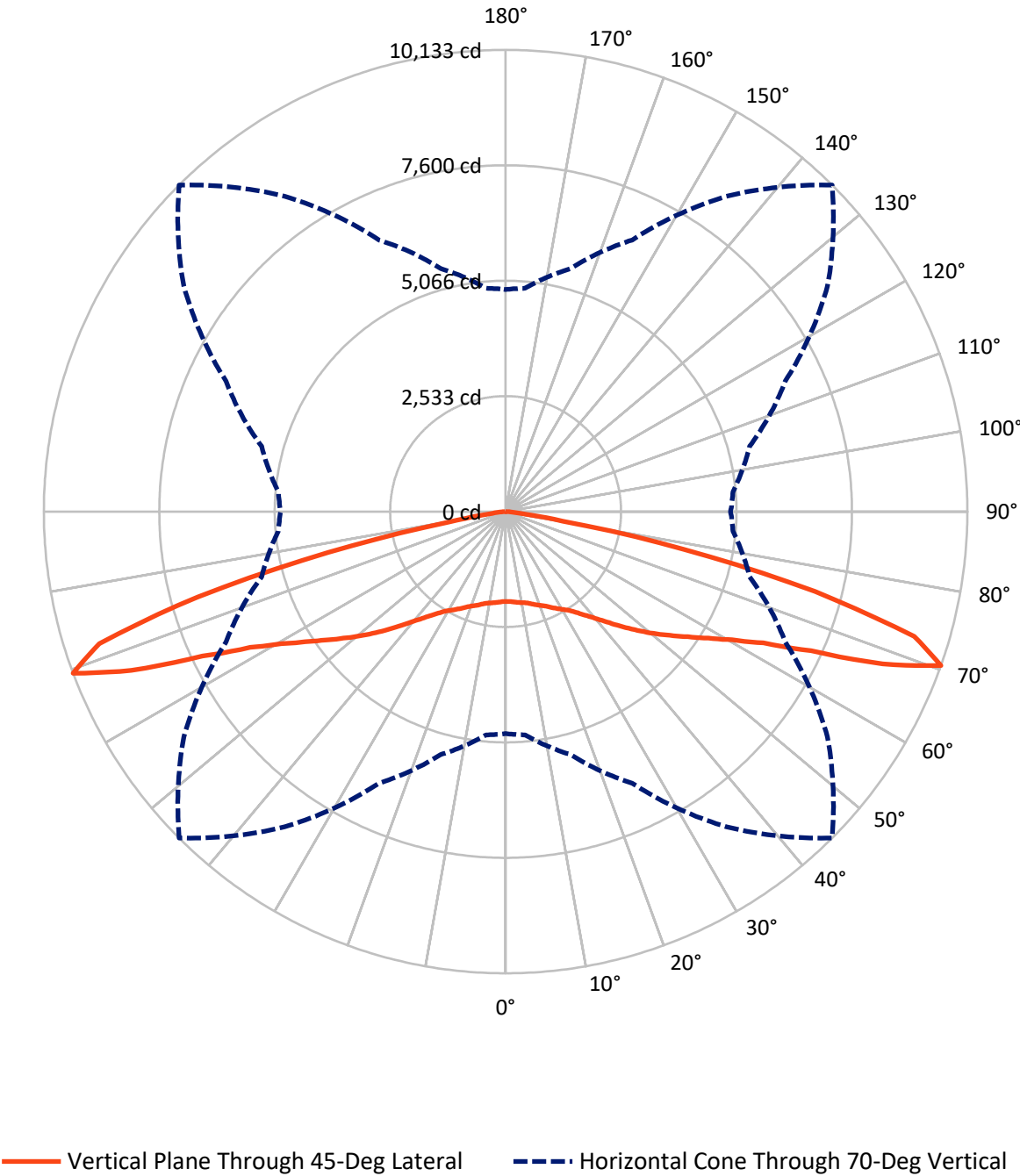
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
Type V - Short - N/A

REPORT NUMBER: P950689  
CATALOG NUMBER: GLAN-SB5A-827-U-5MQ

Luminous Intensity Polar Plot



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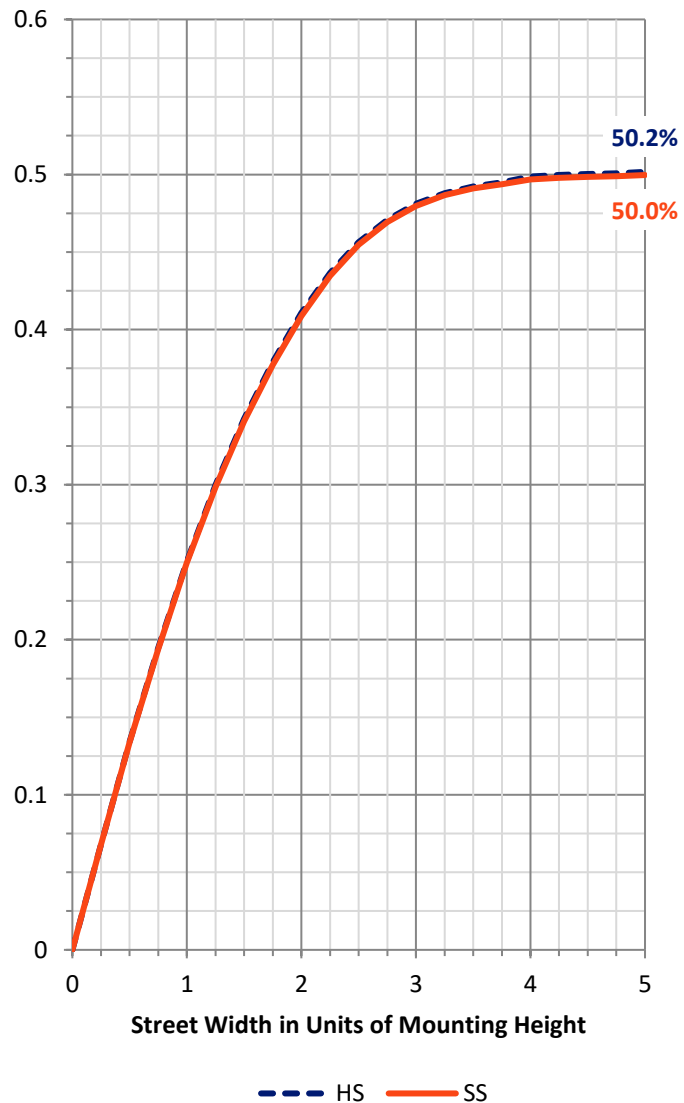
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10317.5  | 0.0    | 10317.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10317.5  | 0.0    | 10317.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 20635.0  | 0.0    | 20635.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 192.0   | 0.9       |
| 10°-20°   | 595.5   | 2.9       |
| 20°-30°   | 1064.2  | 5.2       |
| 30°-40°   | 1725.0  | 8.4       |
| 40°-50°   | 2809.7  | 13.6      |
| 50°-60°   | 4283.9  | 20.8      |
| 60°-70°   | 6373.0  | 30.9      |
| 70°-80°   | 3473.5  | 16.8      |
| 80°-90°   | 118.3   | 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°    | 20635.0 | 100.0     |
| 0°-180°   | 20635.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P950689

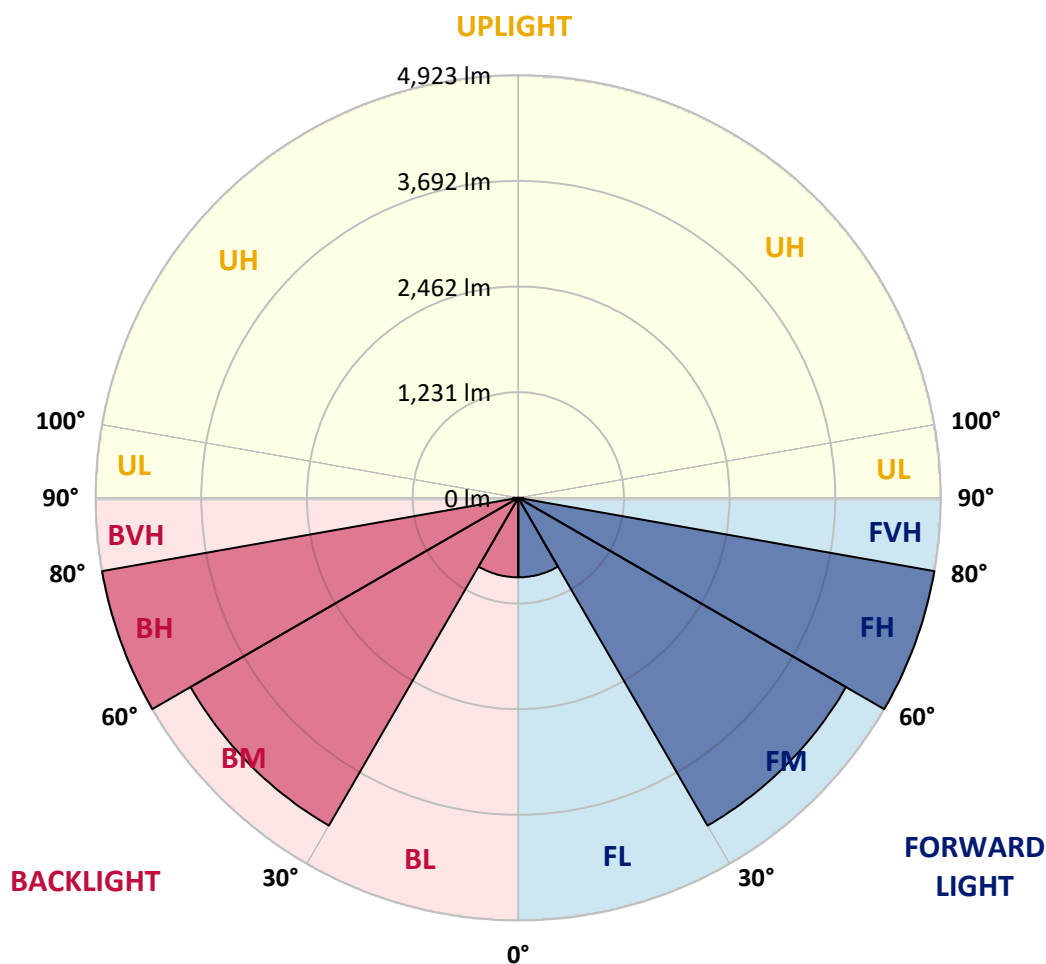
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 925.8  | 4.5       |                         |      |         |
| FM   | (30°-60°)   | 4409.3 | 21.4      |                         |      |         |
| FH   | (60°-80°)   | 4923.3 | 23.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 59.1   | 0.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 925.8  | 4.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 4409.3 | 21.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 4923.3 | 23.9      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 59.1   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type V Short



REPORT NUMBER: P950689

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0°    | 1976.6 | 1976.6 | 1976.6 | 1976.6 | 1976.6 | 1976.6  | 1976.6 | 1976.6 | 1976.6 | 1976.6 |
| 2.5°  | 1985.9 | 1988.0 | 1983.9 | 1981.8 | 1979.7 | 1976.6  | 1977.7 | 1982.8 | 1987.0 | 1985.9 |
| 5°    | 2002.5 | 2004.6 | 2001.5 | 2000.4 | 1996.3 | 1995.3  | 1995.3 | 2000.4 | 2003.6 | 2001.5 |
| 7.5°  | 2021.2 | 2024.3 | 2019.1 | 2018.1 | 2016.0 | 2013.9  | 2012.9 | 2018.1 | 2021.2 | 2021.2 |
| 10°   | 2038.8 | 2041.9 | 2037.7 | 2034.6 | 2032.6 | 2032.6  | 2030.5 | 2034.6 | 2039.8 | 2038.8 |
| 12.5° | 2057.4 | 2059.5 | 2055.4 | 2053.3 | 2053.3 | 2056.4  | 2053.3 | 2055.4 | 2059.5 | 2057.4 |
| 15°   | 2080.2 | 2081.3 | 2080.2 | 2083.3 | 2088.5 | 2098.9  | 2089.5 | 2087.5 | 2089.5 | 2084.4 |
| 17.5° | 2111.3 | 2113.4 | 2117.5 | 2124.8 | 2132.0 | 2150.7  | 2134.1 | 2128.9 | 2128.9 | 2118.5 |
| 20°   | 2149.6 | 2152.7 | 2158.9 | 2171.4 | 2180.7 | 2198.3  | 2181.7 | 2174.5 | 2171.4 | 2157.9 |
| 22.5° | 2190.0 | 2195.2 | 2204.5 | 2221.1 | 2237.7 | 2254.3  | 2237.7 | 2225.3 | 2215.9 | 2198.3 |
| 25°   | 2236.6 | 2242.9 | 2257.4 | 2284.3 | 2307.1 | 2330.9  | 2311.2 | 2286.4 | 2267.7 | 2242.9 |
| 27.5° | 2302.9 | 2310.2 | 2327.8 | 2361.0 | 2390.0 | 2410.7  | 2392.0 | 2359.9 | 2334.0 | 2304.0 |
| 30°   | 2396.2 | 2403.4 | 2424.2 | 2459.4 | 2479.1 | 2492.5  | 2480.1 | 2455.2 | 2424.2 | 2390.0 |
| 32.5° | 2516.4 | 2525.7 | 2548.5 | 2581.6 | 2585.8 | 2587.8  | 2583.7 | 2571.3 | 2548.5 | 2507.0 |
| 35°   | 2668.6 | 2679.0 | 2704.9 | 2731.8 | 2727.7 | 2731.8  | 2725.6 | 2721.5 | 2704.9 | 2657.2 |
| 37.5° | 2855.1 | 2867.5 | 2894.5 | 2915.2 | 2904.8 | 2899.7  | 2900.7 | 2901.7 | 2892.4 | 2839.6 |
| 40°   | 3071.6 | 3088.2 | 3107.9 | 3129.6 | 3112.0 | 3096.5  | 3106.9 | 3115.1 | 3106.9 | 3053.0 |
| 42.5° | 3294.4 | 3318.2 | 3338.9 | 3370.0 | 3355.5 | 3335.8  | 3350.3 | 3359.6 | 3342.0 | 3284.0 |
| 45°   | 3542.0 | 3564.8 | 3591.7 | 3638.3 | 3627.9 | 3607.2  | 3627.9 | 3630.0 | 3600.0 | 3531.6 |
| 47.5° | 3797.8 | 3821.7 | 3862.1 | 3924.2 | 3920.1 | 3897.3  | 3924.2 | 3909.7 | 3871.4 | 3789.6 |
| 50°   | 4040.3 | 4073.4 | 4135.6 | 4222.6 | 4230.9 | 4202.9  | 4239.2 | 4211.2 | 4147.0 | 4044.4 |
| 52.5° | 4268.2 | 4303.4 | 4401.8 | 4519.9 | 4550.0 | 4513.7  | 4562.4 | 4513.7 | 4417.4 | 4285.8 |
| 55°   | 4507.5 | 4546.8 | 4663.9 | 4818.3 | 4878.4 | 4851.4  | 4897.0 | 4823.4 | 4686.7 | 4527.2 |
| 57.5° | 4789.3 | 4813.1 | 4952.9 | 5136.3 | 5237.8 | 5244.1  | 5264.8 | 5140.5 | 4974.7 | 4793.4 |
| 60°   | 5094.9 | 5128.0 | 5280.3 | 5499.9 | 5660.5 | 5712.3  | 5690.6 | 5506.1 | 5313.5 | 5105.2 |
| 62.5° | 5486.5 | 5522.7 | 5705.1 | 5968.2 | 6222.0 | 6350.5  | 6265.5 | 5998.2 | 5760.0 | 5510.3 |
| 65°   | 5810.7 | 5851.1 | 6180.6 | 6649.9 | 7111.9 | 7369.8  | 7156.4 | 6664.4 | 6235.5 | 5883.2 |
| 67.5° | 5575.6 | 5625.3 | 6142.2 | 7004.2 | 8153.0 | 8922.8  | 8192.4 | 7109.8 | 6269.7 | 5792.1 |
| 70°   | 4873.2 | 4919.8 | 5522.7 | 6576.3 | 8446.2 | 10132.8 | 8622.3 | 6770.0 | 5542.4 | 5007.9 |
| 72.5° | 3235.3 | 3385.5 | 3995.7 | 5259.6 | 7541.8 | 9376.5  | 7616.4 | 5152.9 | 3706.7 | 3228.1 |
| 75°   | 1073.3 | 1193.4 | 1609.9 | 2726.7 | 5051.4 | 7012.4  | 4808.9 | 2412.8 | 1275.3 | 917.9  |
| 77.5° | 270.4  | 311.8  | 429.9  | 780.1  | 2015.0 | 3992.6  | 1814.0 | 637.1  | 347.0  | 242.4  |
| 80°   | 131.6  | 145.0  | 207.2  | 260.0  | 504.5  | 1269.1  | 473.4  | 244.5  | 163.7  | 126.4  |
| 82.5° | 72.5   | 73.6   | 117.1  | 147.1  | 187.5  | 328.4   | 194.8  | 143.0  | 94.3   | 76.7   |
| 85°   | 44.5   | 43.5   | 62.2   | 78.7   | 78.7   | 117.1   | 93.2   | 78.7   | 53.9   | 47.7   |
| 87.5° | 17.6   | 17.6   | 22.8   | 24.9   | 21.8   | 30.0    | 23.8   | 25.9   | 20.7   | 19.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |

(END C

| 90°    |
|--------|
| 1976.6 |
| 1987.0 |
| 2002.5 |
| 2021.2 |
| 2038.8 |
| 2056.4 |
| 2084.4 |
| 2118.5 |
| 2157.9 |
| 2197.3 |
| 2241.8 |
| 2302.9 |
| 2390.0 |
| 2508.1 |
| 2657.2 |
| 2839.6 |
| 3053.0 |
| 3288.1 |
| 3538.9 |
| 3784.4 |
| 4042.3 |
| 4273.4 |
| 4505.4 |
| 4768.5 |
| 5072.1 |
| 5466.8 |
| 5825.2 |
| 5720.6 |
| 4936.4 |
| 3123.4 |
| 868.1  |
| 216.5  |
| 116.0  |
| 76.7   |
| 49.7   |
| 20.7   |
| 0.0    |