

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: P957178

Luminaire Tested: **GLAN-SB9C-840-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957178  
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-SB9C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 68331 lumens  
Efficiency: N/A  
Efficacy: 151.9 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): 449.8  
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

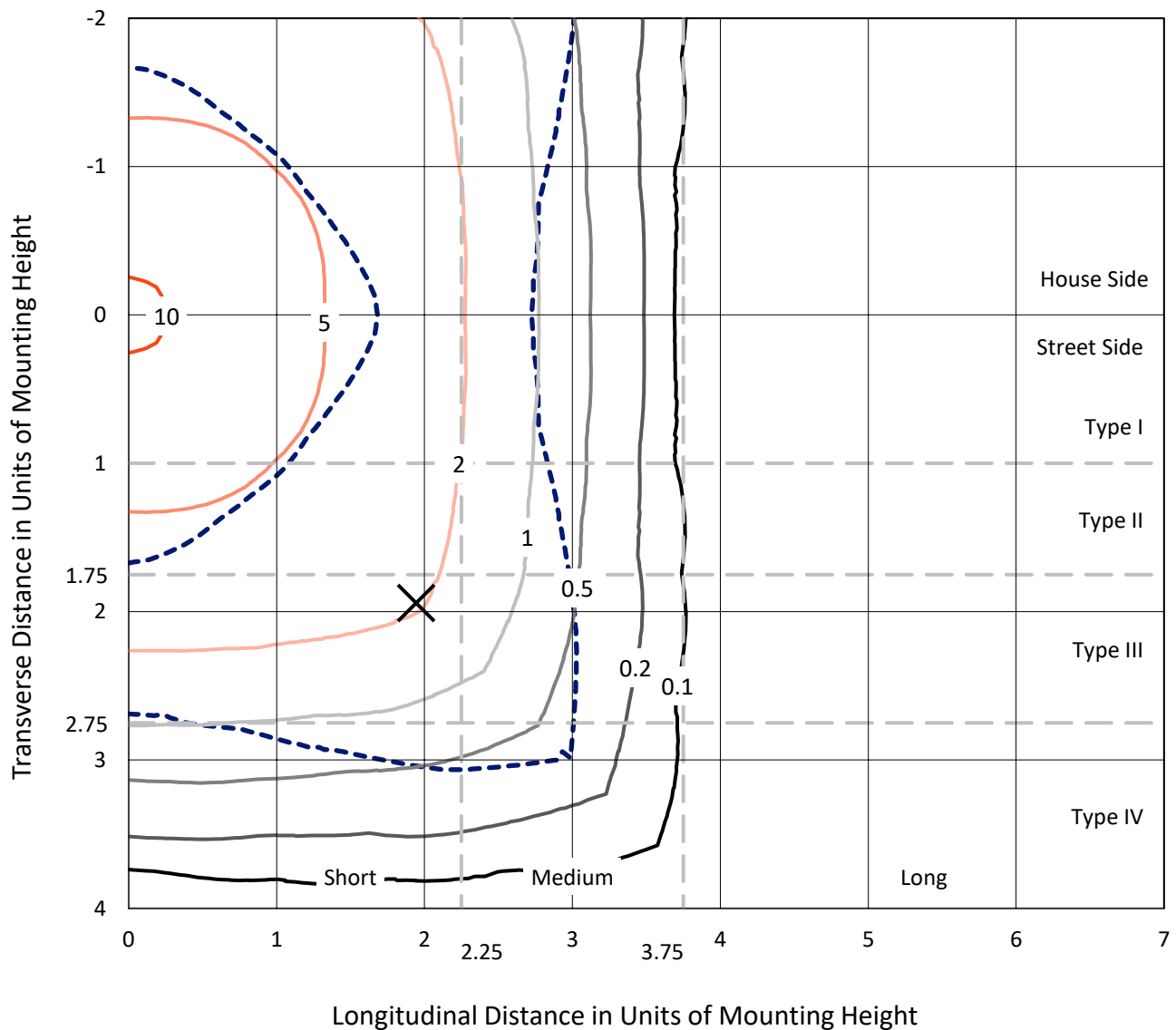


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

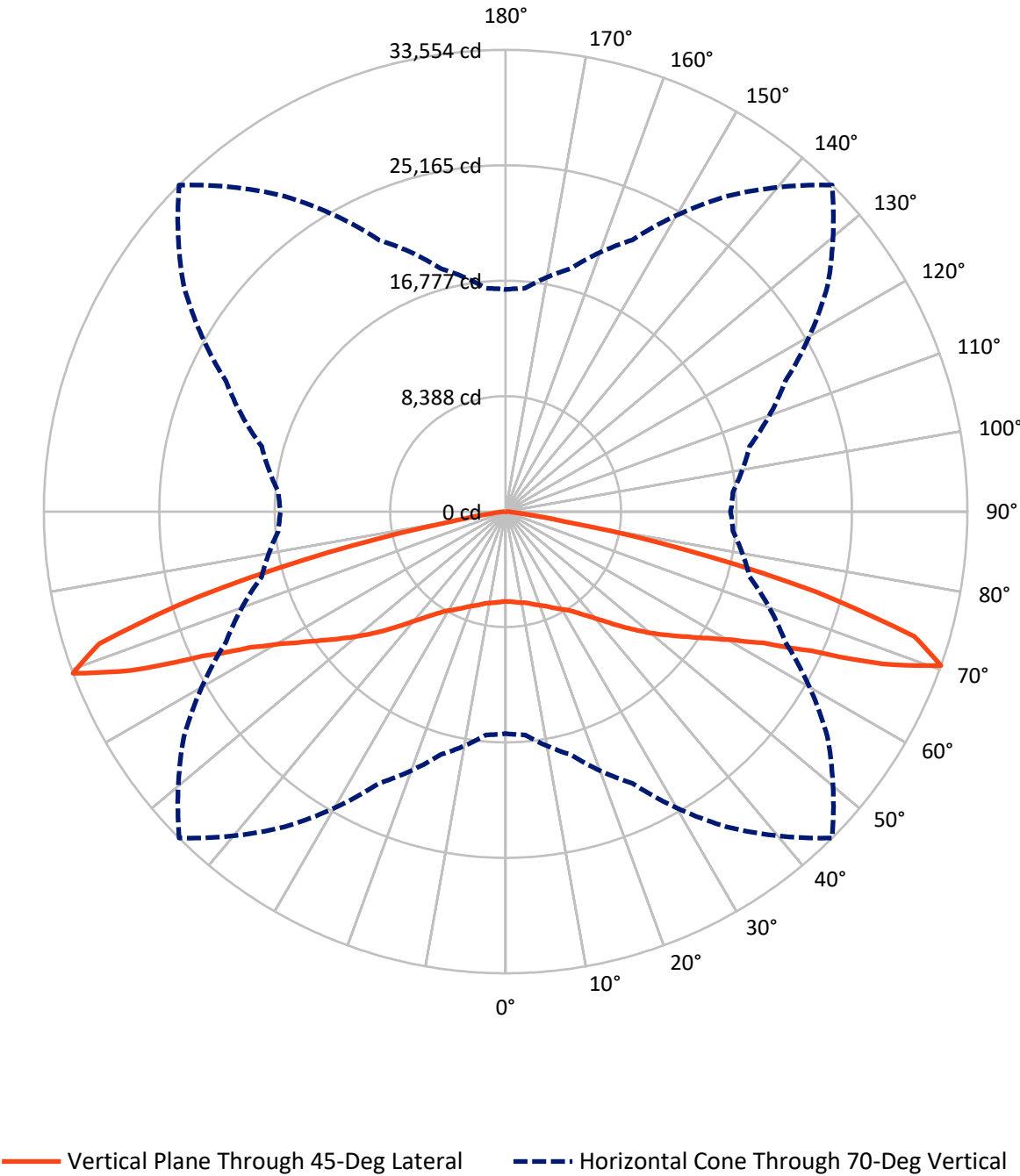


Based on 25 foot mounting height. Maximum calculated value = 10.5 fc

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    | 34165.5  | 0.0    | 34165.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 34165.5  | 0.0    | 34165.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 68331.0  | 0.0    | 68331.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 635.9   | 0.9       |
| 10°-20°   | 1971.8  | 2.9       |
| 20°-30°   | 3523.8  | 5.2       |
| 30°-40°   | 5712.1  | 8.4       |
| 40°-50°   | 9304.1  | 13.6      |
| 50°-60°   | 14185.6 | 20.8      |
| 60°-70°   | 21103.7 | 30.9      |
| 70°-80°   | 11502.2 | 16.8      |
| 80°-90°   | 391.7   | 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°    | 68331.0 | 100.0     |
| 0°-180°   | 68331.0 | 100.0     |

**Coefficient of Utilization**



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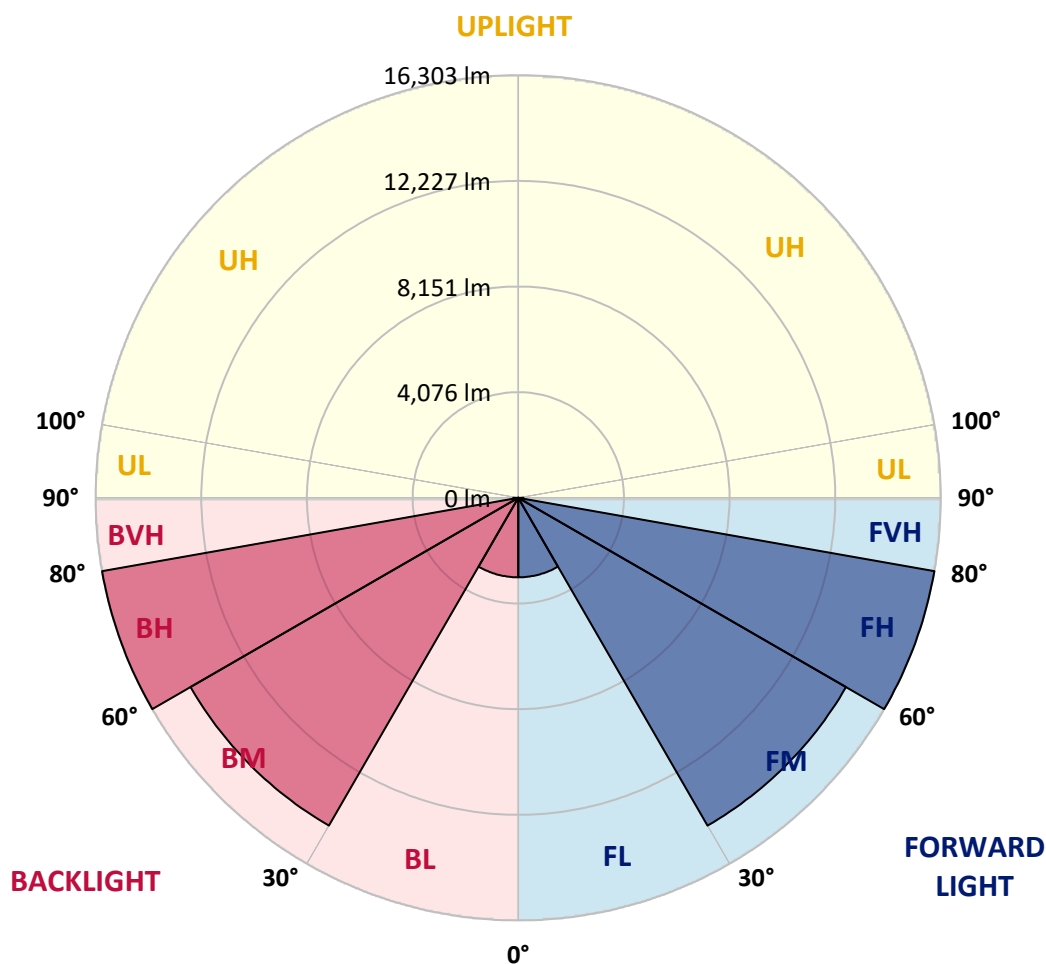
CATALOG NUMBER: GLAN-SB9C-840-U-5MQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 3065.8  | 4.5       |                         |      |        |
| FM   | (30°-60°)   | 14600.9 | 21.4      |                         |      |        |
| FH   | (60°-80°)   | 16303.0 | 23.9      |                         |      | G5     |
| FVH  | (80°-90°)   | 195.8   | 0.3       |                         |      | G2/225 |
| BL   | (0°-30°)    | 3065.8  | 4.5       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 14600.9 | 21.4      | B5                      |      |        |
| BH   | (60°-80°)   | 16303.0 | 23.9      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 195.8   | 0.3       |                         |      | G2/225 |
| 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°    | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  | 6545.4  |
| 2.5°  | 6576.3  | 6583.1  | 6569.4  | 6562.6  | 6555.7  | 6545.4  | 6548.8  | 6566.0  | 6579.7  | 6576.3  |
| 5°    | 6631.2  | 6638.0  | 6627.7  | 6624.3  | 6610.6  | 6607.2  | 6607.2  | 6624.3  | 6634.6  | 6627.7  |
| 7.5°  | 6692.9  | 6703.2  | 6686.1  | 6682.6  | 6675.8  | 6668.9  | 6665.5  | 6682.6  | 6692.9  | 6692.9  |
| 10°   | 6751.2  | 6761.5  | 6747.8  | 6737.5  | 6730.6  | 6730.6  | 6723.8  | 6737.5  | 6754.7  | 6751.2  |
| 12.5° | 6813.0  | 6819.8  | 6806.1  | 6799.3  | 6799.3  | 6809.6  | 6799.3  | 6806.1  | 6819.8  | 6813.0  |
| 15°   | 6888.5  | 6891.9  | 6888.5  | 6898.7  | 6915.9  | 6950.2  | 6919.3  | 6912.5  | 6919.3  | 6902.2  |
| 17.5° | 6991.4  | 6998.2  | 7012.0  | 7036.0  | 7060.0  | 7121.7  | 7066.8  | 7049.7  | 7049.7  | 7015.4  |
| 20°   | 7118.3  | 7128.6  | 7149.2  | 7190.3  | 7221.2  | 7279.5  | 7224.6  | 7200.6  | 7190.3  | 7145.7  |
| 22.5° | 7252.1  | 7269.2  | 7300.1  | 7355.0  | 7409.9  | 7464.8  | 7409.9  | 7368.7  | 7337.8  | 7279.5  |
| 25°   | 7406.5  | 7427.0  | 7475.1  | 7564.3  | 7639.7  | 7718.6  | 7653.5  | 7571.1  | 7509.4  | 7427.0  |
| 27.5° | 7626.0  | 7650.0  | 7708.3  | 7818.1  | 7914.2  | 7982.8  | 7921.0  | 7814.7  | 7728.9  | 7629.4  |
| 30°   | 7934.8  | 7958.8  | 8027.4  | 8144.0  | 8209.2  | 8253.8  | 8212.6  | 8130.3  | 8027.4  | 7914.2  |
| 32.5° | 8332.7  | 8363.6  | 8439.0  | 8548.8  | 8562.5  | 8569.4  | 8555.7  | 8514.5  | 8439.0  | 8301.8  |
| 35°   | 8837.0  | 8871.3  | 8957.0  | 9046.2  | 9032.5  | 9046.2  | 9025.7  | 9011.9  | 8957.0  | 8799.2  |
| 37.5° | 9454.5  | 9495.6  | 9584.8  | 9653.4  | 9619.1  | 9602.0  | 9605.4  | 9608.8  | 9578.0  | 9403.0  |
| 40°   | 10171.4 | 10226.3 | 10291.5 | 10363.6 | 10305.2 | 10253.8 | 10288.1 | 10315.5 | 10288.1 | 10109.7 |
| 42.5° | 10909.0 | 10987.9 | 11056.5 | 11159.4 | 11111.4 | 11046.2 | 11094.3 | 11125.1 | 11066.8 | 10874.7 |
| 45°   | 11728.9 | 11804.4 | 11893.6 | 12047.9 | 12013.6 | 11945.0 | 12013.6 | 12020.5 | 11921.0 | 11694.6 |
| 47.5° | 12576.2 | 12655.1 | 12788.9 | 12994.8 | 12981.0 | 12905.6 | 12994.8 | 12946.7 | 12819.8 | 12548.8 |
| 50°   | 13379.0 | 13488.7 | 13694.6 | 13982.7 | 14010.2 | 13917.6 | 14037.6 | 13945.0 | 13732.3 | 13392.7 |
| 52.5° | 14133.7 | 14250.3 | 14576.2 | 14967.3 | 15066.8 | 14946.7 | 15107.9 | 14946.7 | 14627.7 | 14192.0 |
| 55°   | 14926.1 | 15056.5 | 15444.1 | 15955.3 | 16154.2 | 16065.1 | 16216.0 | 15972.4 | 15519.6 | 14991.3 |
| 57.5° | 15859.2 | 15938.1 | 16401.2 | 17008.4 | 17344.6 | 17365.2 | 17433.8 | 17022.2 | 16473.3 | 15872.9 |
| 60°   | 16871.2 | 16981.0 | 17485.3 | 18212.5 | 18744.3 | 18915.8 | 18843.8 | 18233.1 | 17595.1 | 16905.5 |
| 62.5° | 18168.0 | 18288.0 | 18891.8 | 19763.1 | 20603.6 | 21029.0 | 20747.7 | 19862.6 | 19073.6 | 18246.9 |
| 65°   | 19241.7 | 19375.5 | 20466.4 | 22020.4 | 23550.4 | 24404.6 | 23697.9 | 22068.4 | 20648.2 | 19481.8 |
| 67.5° | 18463.0 | 18627.6 | 20339.5 | 23193.6 | 26998.1 | 29546.9 | 27128.4 | 23543.6 | 20761.4 | 19180.0 |
| 70°   | 16137.1 | 16291.5 | 18288.0 | 21776.8 | 27968.9 | 33553.8 | 28552.1 | 22418.3 | 18353.2 | 16583.1 |
| 72.5° | 10713.5 | 11210.9 | 13231.5 | 17416.7 | 24974.1 | 31049.5 | 25221.1 | 17063.3 | 12274.3 | 10689.5 |
| 75°   | 3554.0  | 3951.9  | 5331.0  | 9029.1  | 16727.1 | 23221.1 | 15924.4 | 7989.6  | 4223.0  | 3039.4  |
| 77.5° | 895.4   | 1032.6  | 1423.7  | 2583.2  | 6672.3  | 13221.2 | 6006.8  | 2109.8  | 1149.2  | 802.7   |
| 80°   | 435.7   | 480.3   | 686.1   | 861.1   | 1670.7  | 4202.4  | 1567.7  | 809.6   | 542.0   | 418.5   |
| 82.5° | 240.1   | 243.6   | 387.6   | 487.1   | 620.9   | 1087.5  | 644.9   | 473.4   | 312.2   | 253.9   |
| 85°   | 147.5   | 144.1   | 205.8   | 260.7   | 260.7   | 387.6   | 308.7   | 260.7   | 178.4   | 157.8   |
| 87.5° | 58.3    | 58.3    | 75.5    | 82.3    | 72.0    | 99.5    | 78.9    | 85.8    | 68.6    | 65.2    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

| 90°     |
|---------|
| 6545.4  |
| 6579.7  |
| 6631.2  |
| 6692.9  |
| 6751.2  |
| 6809.6  |
| 6902.2  |
| 7015.4  |
| 7145.7  |
| 7276.1  |
| 7423.6  |
| 7626.0  |
| 7914.2  |
| 8305.3  |
| 8799.2  |
| 9403.0  |
| 10109.7 |
| 10888.4 |
| 11718.6 |
| 12531.6 |
| 13385.8 |
| 14150.8 |
| 14919.3 |
| 15790.6 |
| 16795.8 |
| 18102.8 |
| 19289.7 |
| 18943.2 |
| 16346.4 |
| 10343.0 |
| 2874.8  |
| 717.0   |
| 384.2   |
| 253.9   |
| 164.7   |
| 68.6    |
| 0.0     |