

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: P948992

Luminaire Tested: **GLAN-SB3D-850-U-RW**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB3D-850-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30073 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

Input Watts (W): 218.1  
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



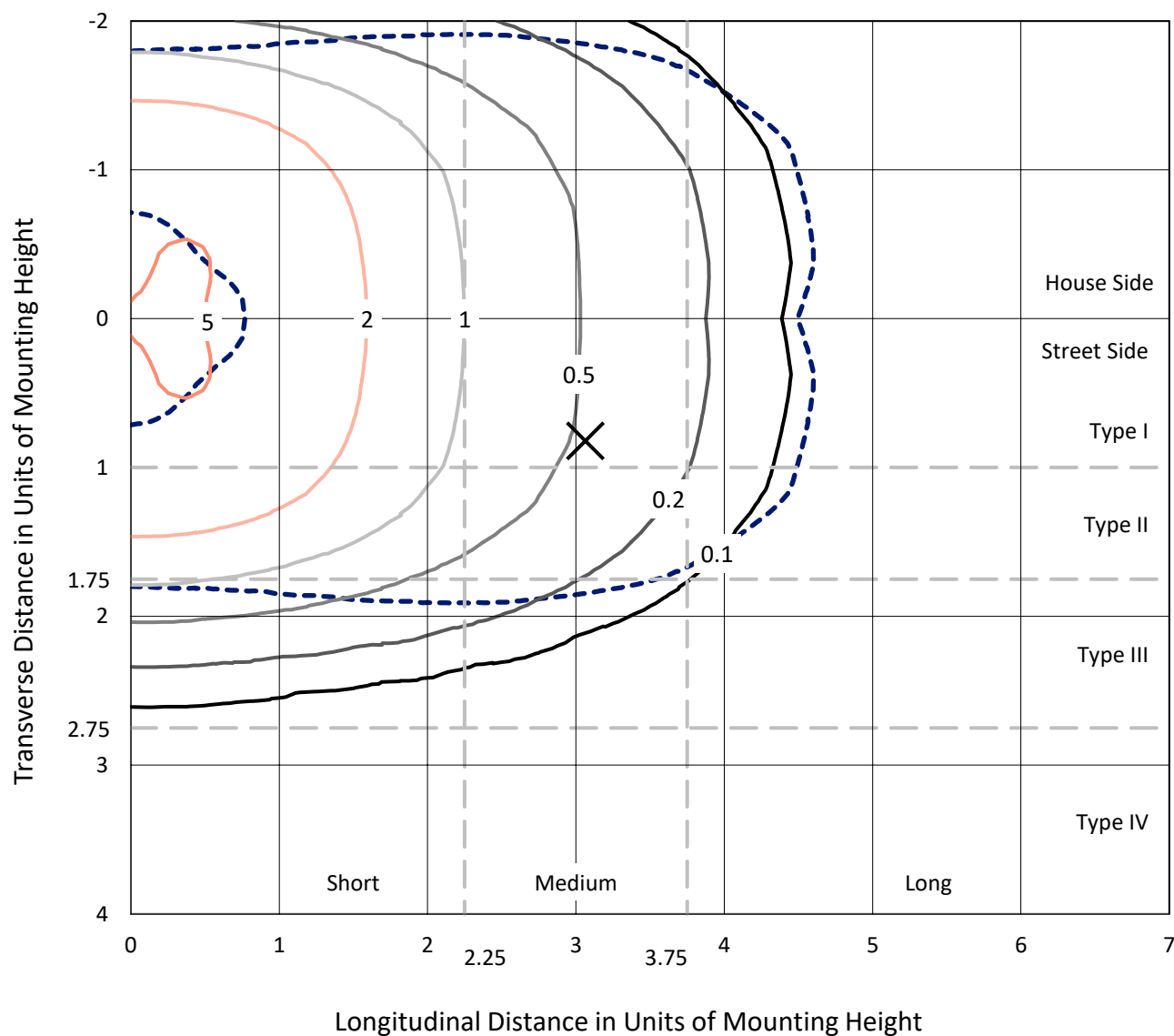
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

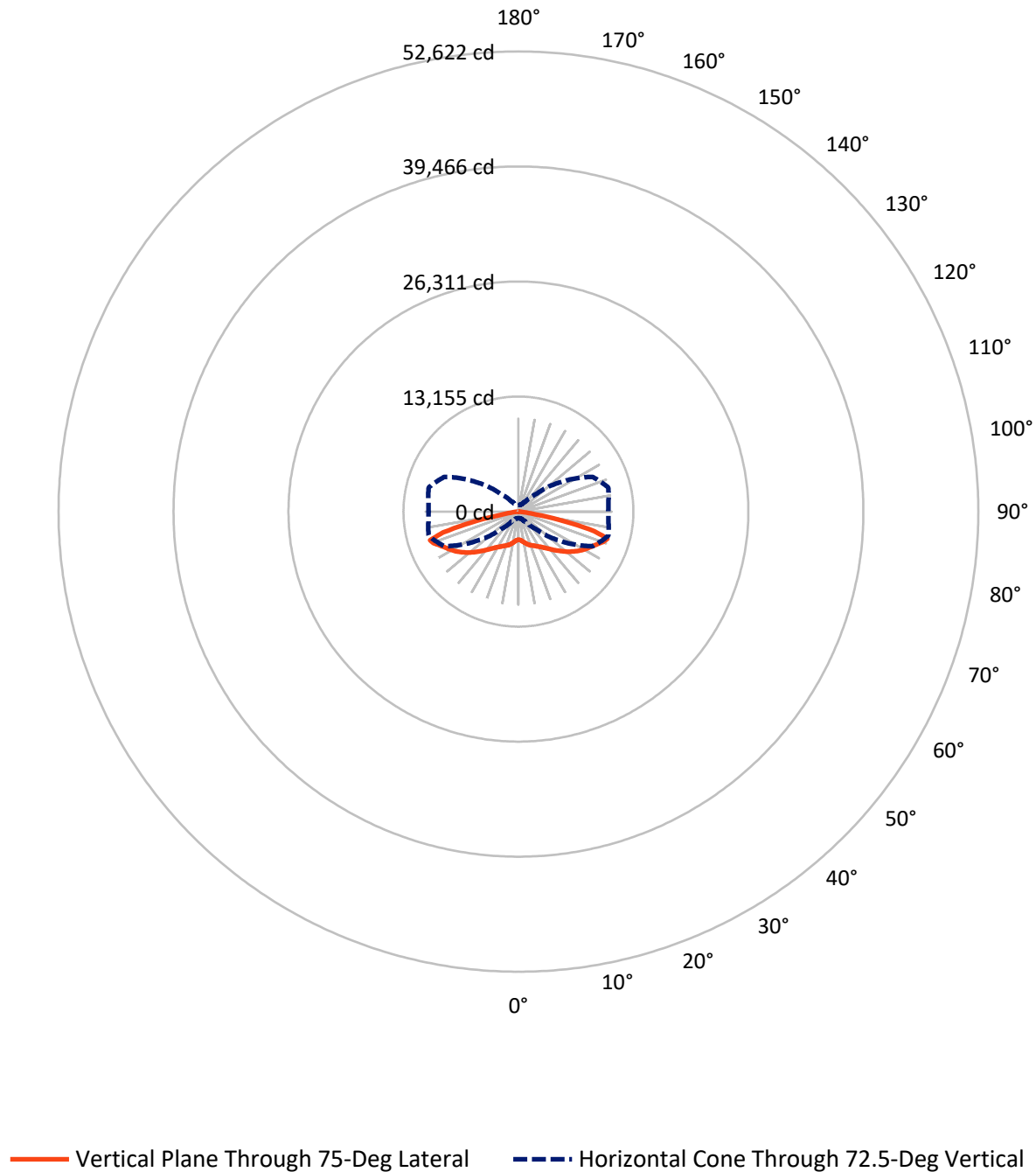
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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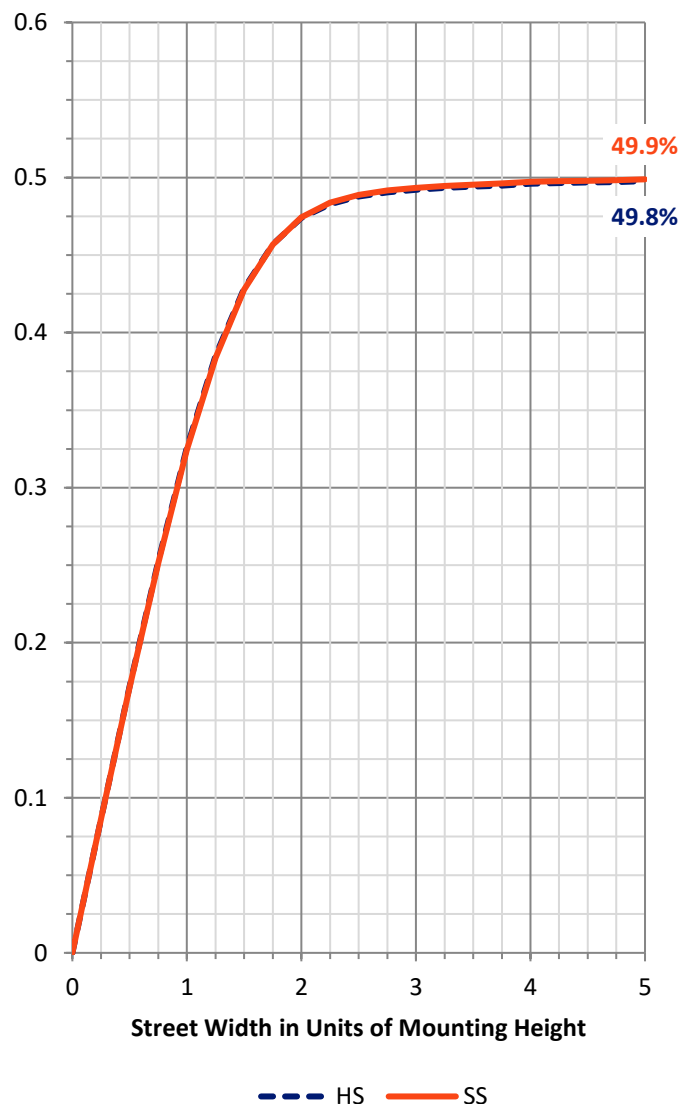
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15036.5  | 0.0    | 15036.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15036.5  | 0.0    | 15036.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 30073.0  | 0.0    | 30073.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 315.6   | 1.0       |
| 10°-20°   | 1040.8  | 3.5       |
| 20°-30°   | 2011.1  | 6.7       |
| 30°-40°   | 3395.8  | 11.3      |
| 40°-50°   | 5385.4  | 17.9      |
| 50°-60°   | 7210.5  | 24.0      |
| 60°-70°   | 6862.0  | 22.8      |
| 70°-80°   | 3580.7  | 11.9      |
| 80°-90°   | 271.0   | 0.9       |
| 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°    | 30073.0 | 100.0     |
| 0°-180°   | 30073.0 | 100.0     |

**Coefficient of Utilization**



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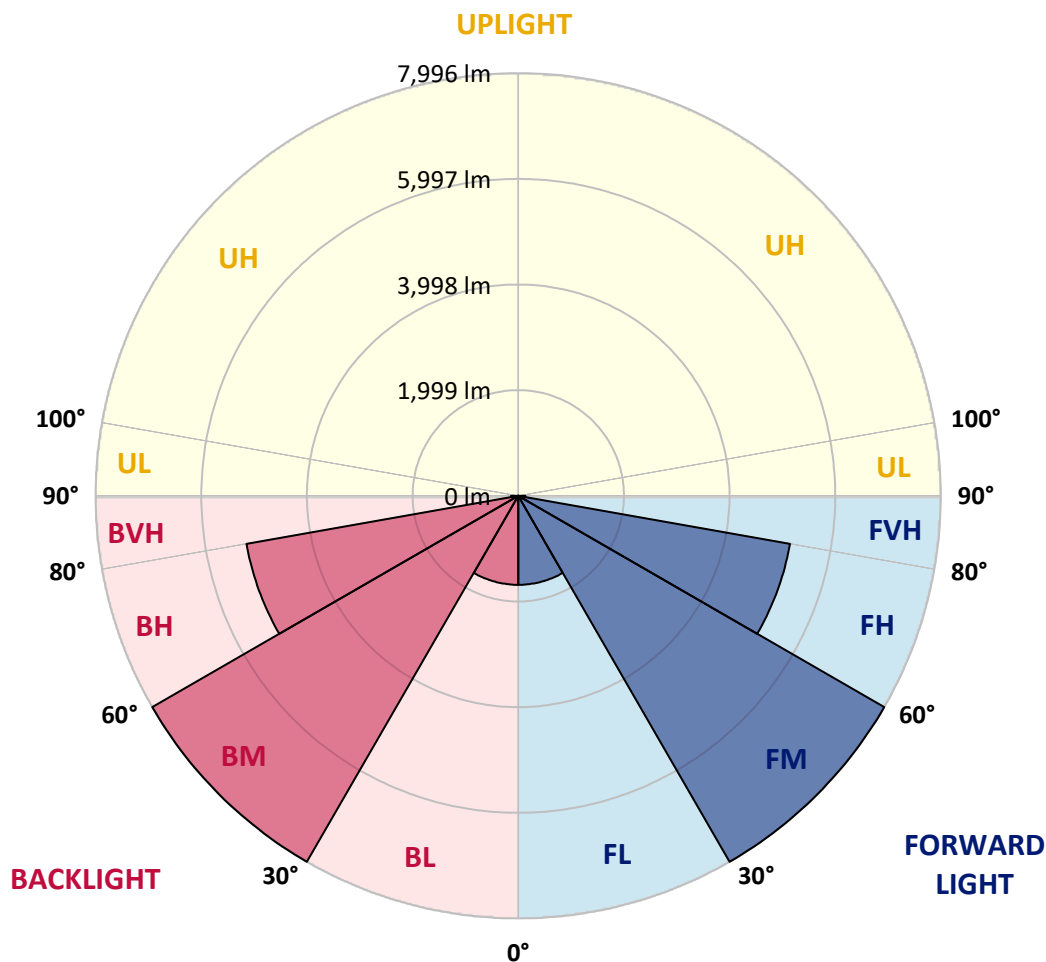
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1683.7 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 7995.9 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 5221.4 | 17.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 135.5  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1683.7 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7995.9 | 26.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5221.4 | 17.4      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 135.5  | 0.5       |                         |      | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 3221.4 | 3221.4 | 3221.4 | 3221.4 | 3221.4 | 3221.4 | 3221.4 | 3221.4  | 3221.4  | 3221.4  |
| 2.5°  | 3221.4 | 3218.3 | 3221.4 | 3224.4 | 3222.9 | 3222.9 | 3230.6 | 3235.2  | 3244.4  | 3242.9  |
| 5°    | 3199.9 | 3198.3 | 3210.6 | 3224.4 | 3235.2 | 3253.6 | 3276.6 | 3293.5  | 3315.0  | 3319.6  |
| 7.5°  | 3189.1 | 3184.5 | 3206.0 | 3230.6 | 3264.3 | 3310.4 | 3354.9 | 3401.0  | 3437.9  | 3450.1  |
| 10°   | 3196.8 | 3198.3 | 3227.5 | 3273.6 | 3327.3 | 3391.8 | 3454.7 | 3533.1  | 3585.3  | 3597.5  |
| 12.5° | 3232.1 | 3229.0 | 3278.2 | 3351.9 | 3425.6 | 3506.9 | 3580.7 | 3666.6  | 3723.4  | 3752.6  |
| 15°   | 3296.6 | 3290.5 | 3359.5 | 3468.6 | 3576.0 | 3671.2 | 3731.1 | 3812.5  | 3878.5  | 3915.4  |
| 17.5° | 3373.4 | 3376.4 | 3467.0 | 3608.3 | 3749.5 | 3857.0 | 3913.8 | 3955.3  | 4006.0  | 4038.2  |
| 20°   | 3508.5 | 3514.6 | 3616.0 | 3783.3 | 3944.5 | 4067.4 | 4113.4 | 4098.1  | 4111.9  | 4136.5  |
| 22.5° | 3689.7 | 3692.7 | 3806.4 | 3987.5 | 4156.4 | 4291.6 | 4322.3 | 4259.3  | 4220.9  | 4237.8  |
| 25°   | 3900.0 | 3920.0 | 4033.6 | 4219.4 | 4392.9 | 4521.9 | 4535.7 | 4440.5  | 4345.3  | 4349.9  |
| 27.5° | 4156.4 | 4174.9 | 4290.0 | 4474.3 | 4650.9 | 4762.9 | 4761.4 | 4634.0  | 4494.2  | 4458.9  |
| 30°   | 4434.4 | 4454.3 | 4572.5 | 4762.9 | 4927.2 | 5025.5 | 5004.0 | 4852.0  | 4652.4  | 4586.4  |
| 32.5° | 4764.5 | 4776.8 | 4896.5 | 5086.9 | 5238.9 | 5317.2 | 5272.7 | 5085.4  | 4836.6  | 4761.4  |
| 35°   | 5163.7 | 5182.1 | 5271.2 | 5450.8 | 5584.4 | 5648.9 | 5573.7 | 5352.5  | 5073.1  | 4988.7  |
| 37.5° | 5619.7 | 5607.4 | 5708.8 | 5868.5 | 5979.0 | 6018.9 | 5916.1 | 5653.5  | 5343.3  | 5243.5  |
| 40°   | 6095.7 | 6089.6 | 6200.1 | 6353.7 | 6413.5 | 6438.1 | 6286.1 | 5999.0  | 5655.0  | 5547.6  |
| 42.5° | 6527.2 | 6522.6 | 6671.5 | 6841.9 | 6914.1 | 6886.5 | 6694.5 | 6365.9  | 6015.9  | 5893.0  |
| 45°   | 6872.6 | 6866.5 | 7049.2 | 7288.7 | 7430.0 | 7383.9 | 7126.0 | 6771.3  | 6381.3  | 6253.9  |
| 47.5° | 7138.3 | 7141.3 | 7337.9 | 7634.2 | 7881.4 | 7898.3 | 7566.7 | 7184.3  | 6783.6  | 6639.2  |
| 50°   | 7330.2 | 7339.4 | 7549.8 | 7878.4 | 8216.1 | 8365.1 | 8016.5 | 7608.1  | 7199.7  | 7036.9  |
| 52.5° | 7377.8 | 7394.7 | 7648.0 | 8033.4 | 8431.1 | 8715.2 | 8474.1 | 8015.0  | 7594.3  | 7439.2  |
| 55°   | 7124.4 | 7158.2 | 7479.1 | 8021.1 | 8563.2 | 8945.5 | 8876.4 | 8428.0  | 7992.0  | 7832.3  |
| 57.5° | 6542.5 | 6590.1 | 6964.8 | 7672.6 | 8534.0 | 9103.6 | 9188.1 | 8824.2  | 8389.7  | 8236.1  |
| 60°   | 5727.2 | 5784.0 | 6143.3 | 6915.6 | 8122.5 | 9162.0 | 9407.7 | 9209.6  | 8755.1  | 8606.2  |
| 62.5° | 4497.3 | 4571.0 | 5000.9 | 5906.8 | 7253.4 | 8890.2 | 9595.0 | 9558.1  | 9083.7  | 8897.9  |
| 65°   | 2885.1 | 2963.4 | 3416.4 | 4486.6 | 6094.2 | 8058.0 | 9653.3 | 9897.5  | 9430.7  | 9171.2  |
| 67.5° | 1739.7 | 1775.0 | 1999.1 | 2719.3 | 4454.3 | 6803.5 | 9158.9 | 10273.6 | 9836.0  | 9513.6  |
| 70°   | 1113.2 | 1133.2 | 1266.7 | 1596.9 | 2518.1 | 4964.1 | 7933.6 | 10344.3 | 10327.4 | 9865.2  |
| 72.5° | 755.4  | 761.6  | 796.9  | 945.8  | 1424.9 | 2820.6 | 5851.6 | 9364.7  | 10634.5 | 10318.2 |
| 75°   | 552.8  | 586.5  | 643.4  | 669.5  | 809.2  | 1409.5 | 3353.4 | 6579.4  | 8962.4  | 9100.6  |
| 77.5° | 411.5  | 413.0  | 491.3  | 522.1  | 577.3  | 750.8  | 1418.7 | 3672.8  | 5564.4  | 5842.4  |
| 80°   | 348.5  | 330.1  | 328.6  | 420.7  | 434.5  | 468.3  | 634.1  | 1268.3  | 1993.0  | 1208.4  |
| 82.5° | 290.2  | 270.2  | 244.1  | 328.6  | 296.3  | 287.1  | 274.8  | 515.9   | 634.1   | 311.7   |
| 85°   | 202.7  | 193.5  | 184.3  | 215.0  | 168.9  | 144.3  | 132.0  | 241.1   | 267.2   | 132.0   |
| 87.5° | 87.5   | 90.6   | 92.1   | 95.2   | 70.6   | 50.7   | 50.7   | 67.6    | 67.6    | 52.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     |

(END C

| 90°     |
|---------|
| 3221.4  |
| 3241.3  |
| 3319.6  |
| 3453.2  |
| 3609.8  |
| 3764.9  |
| 3929.2  |
| 4053.6  |
| 4154.9  |
| 4250.1  |
| 4357.6  |
| 4469.7  |
| 4594.0  |
| 4779.8  |
| 5000.9  |
| 5262.0  |
| 5582.9  |
| 5923.7  |
| 6283.0  |
| 6682.2  |
| 7086.1  |
| 7479.1  |
| 7876.8  |
| 8271.4  |
| 8638.4  |
| 8919.4  |
| 9203.4  |
| 9538.2  |
| 9862.1  |
| 10269.0 |
| 8765.8  |
| 5211.3  |
| 913.6   |
| 265.6   |
| 116.7   |
| 38.4    |
| 0.0     |