

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: P955754

Luminaire Tested: **GLAN-SB8C-840-U-RW**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955754  
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-SB8C-840-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 59648 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B5 - U0 - G5

Input Watts (W): 399.8  
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

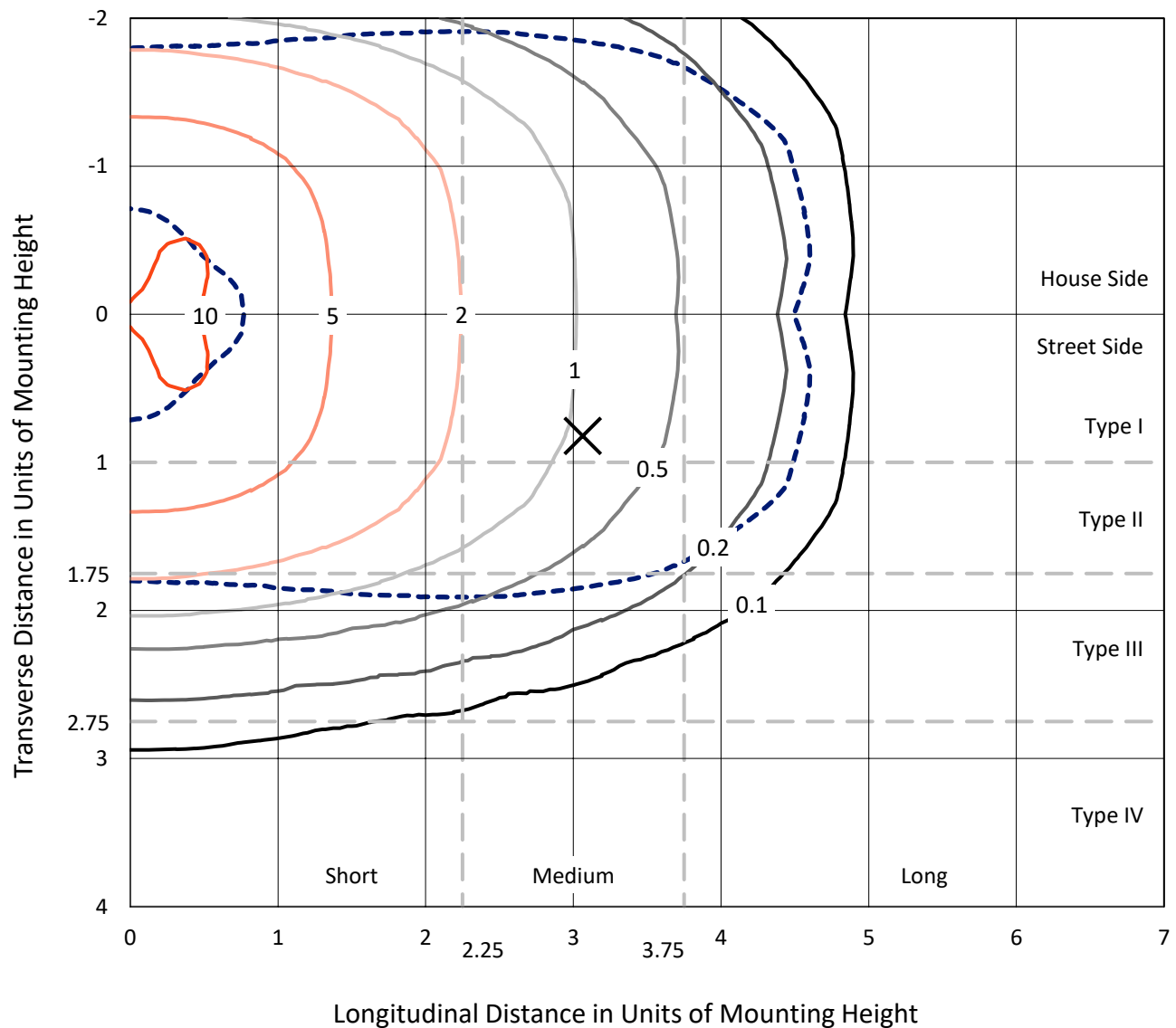


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## Iso-Footcandle Lines of Horizontal Illumination

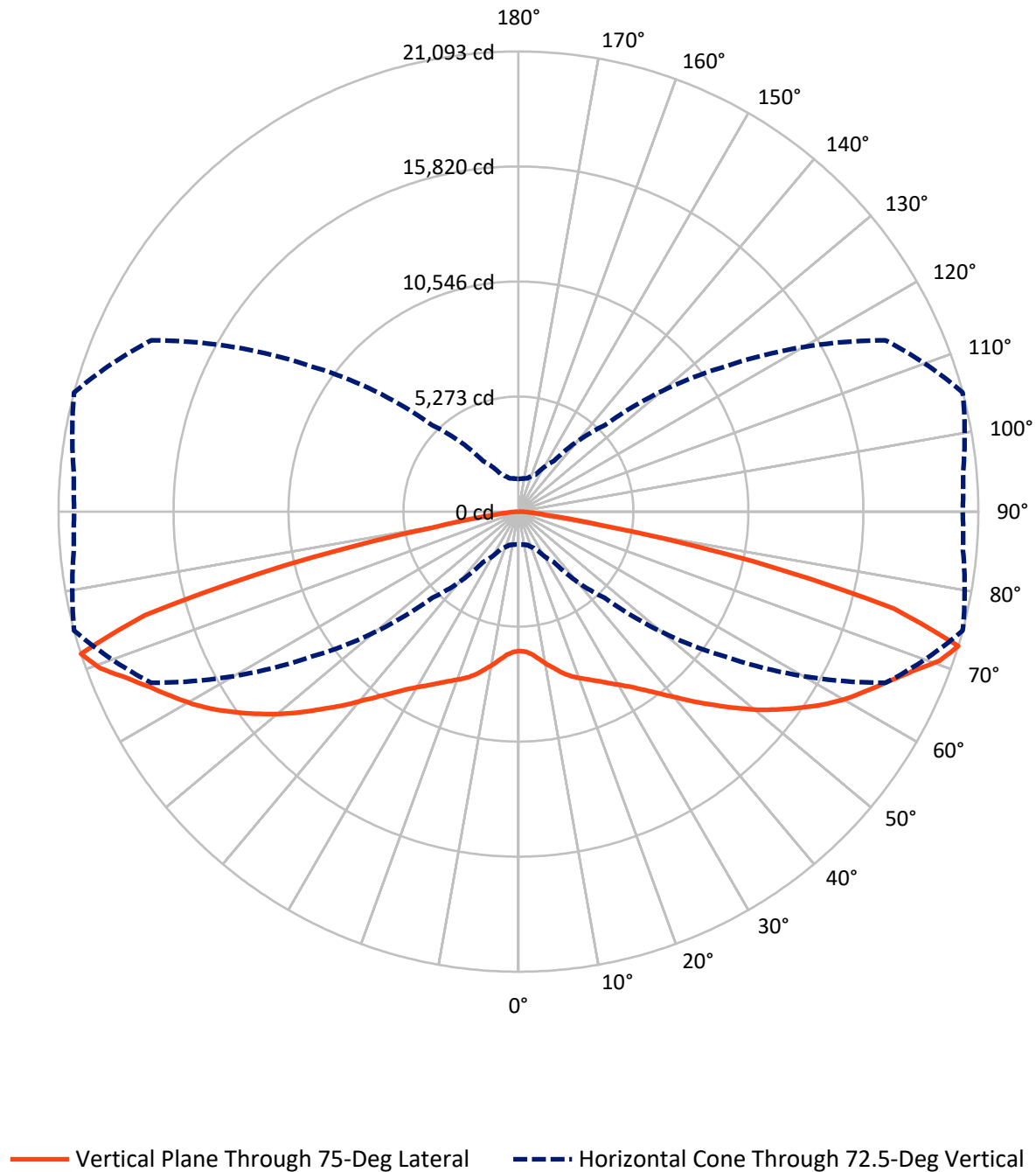
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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    | 29824.0  | 0.0    | 29824.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29824.0  | 0.0    | 29824.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 59648.0  | 0.0    | 59648.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 625.9   | 1.0       |
| 10°-20°   | 2064.3  | 3.5       |
| 20°-30°   | 3988.9  | 6.7       |
| 30°-40°   | 6735.5  | 11.3      |
| 40°-50°   | 10681.7 | 17.9      |
| 50°-60°   | 14301.5 | 24.0      |
| 60°-70°   | 13610.5 | 22.8      |
| 70°-80°   | 7102.2  | 11.9      |
| 80°-90°   | 537.6   | 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°    | 59648.0 | 100.0     |
| 0°-180°   | 59648.0 | 100.0     |

**Coefficient of Utilization**



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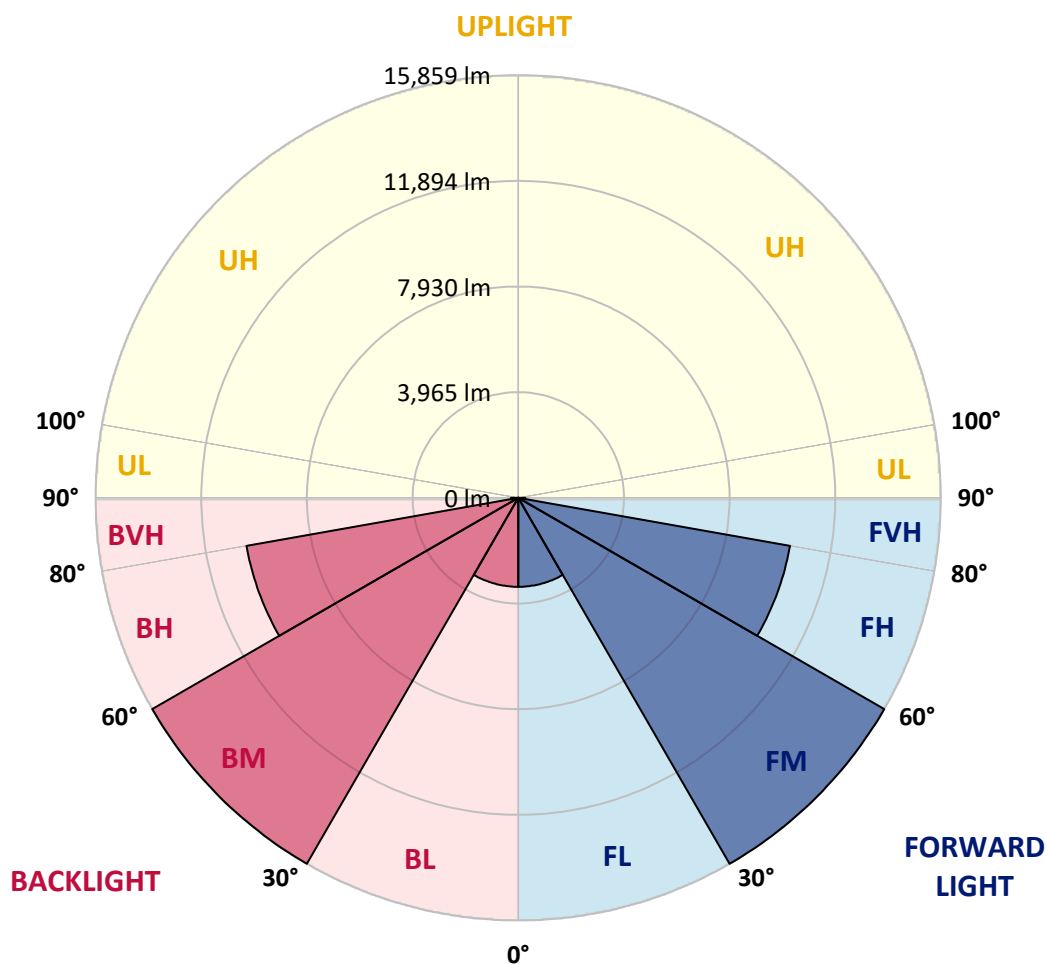
CATALOG NUMBER: GLAN-SB8C-840-U-RW

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3339.6  | 5.6       |                         |      |          |
| FM   | (30°-60°)   | 15859.3 | 26.6      |                         |      |          |
| FH   | (60°-80°)   | 10356.3 | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 268.8   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3339.6  | 5.6       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 15859.3 | 26.6      | B5                      |      |          |
| BH   | (60°-80°)   | 10356.3 | 17.4      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 268.8   | 0.5       |                         |      | G3/500   |
| 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°    | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  | 6389.4  |
| 2.5°  | 6389.4  | 6383.3  | 6389.4  | 6395.5  | 6392.4  | 6392.4  | 6407.6  | 6416.8  | 6435.1  | 6432.0  |
| 5°    | 6346.7  | 6343.7  | 6368.1  | 6395.5  | 6416.8  | 6453.3  | 6499.0  | 6532.5  | 6575.1  | 6584.3  |
| 7.5°  | 6325.4  | 6316.3  | 6358.9  | 6407.6  | 6474.6  | 6566.0  | 6654.3  | 6745.7  | 6818.8  | 6843.1  |
| 10°   | 6340.6  | 6343.7  | 6401.6  | 6492.9  | 6599.5  | 6727.4  | 6852.3  | 7007.6  | 7111.1  | 7135.5  |
| 12.5° | 6410.7  | 6404.6  | 6502.1  | 6648.2  | 6794.4  | 6955.8  | 7102.0  | 7272.6  | 7385.2  | 7443.1  |
| 15°   | 6538.6  | 6526.4  | 6663.5  | 6879.7  | 7092.9  | 7281.7  | 7400.5  | 7561.9  | 7692.8  | 7765.9  |
| 17.5° | 6690.9  | 6697.0  | 6876.6  | 7156.8  | 7437.0  | 7650.2  | 7762.9  | 7845.1  | 7945.6  | 8009.6  |
| 20°   | 6958.9  | 6971.1  | 7172.1  | 7504.0  | 7823.8  | 8067.4  | 8158.8  | 8128.3  | 8155.7  | 8204.5  |
| 22.5° | 7318.2  | 7324.3  | 7549.7  | 7909.1  | 8244.1  | 8512.1  | 8573.0  | 8448.1  | 8372.0  | 8405.5  |
| 25°   | 7735.5  | 7775.1  | 8000.4  | 8368.9  | 8713.1  | 8968.9  | 8996.3  | 8807.5  | 8618.6  | 8627.8  |
| 27.5° | 8244.1  | 8280.6  | 8509.0  | 8874.5  | 9224.7  | 9447.0  | 9444.0  | 9191.2  | 8914.1  | 8844.0  |
| 30°   | 8795.3  | 8834.9  | 9069.4  | 9447.0  | 9772.9  | 9967.8  | 9925.1  | 9623.6  | 9227.7  | 9096.8  |
| 32.5° | 9450.1  | 9474.4  | 9712.0  | 10089.6 | 10391.1 | 10546.4 | 10458.1 | 10086.6 | 9593.2  | 9444.0  |
| 35°   | 10241.9 | 10278.4 | 10455.1 | 10811.4 | 11076.3 | 11204.2 | 11055.0 | 10616.5 | 10062.2 | 9894.7  |
| 37.5° | 11146.4 | 11122.0 | 11323.0 | 11639.7 | 11859.0 | 11938.2 | 11734.1 | 11213.4 | 10598.2 | 10400.2 |
| 40°   | 12090.5 | 12078.3 | 12297.6 | 12602.1 | 12720.9 | 12769.6 | 12468.1 | 11898.6 | 11216.4 | 11003.2 |
| 42.5° | 12946.2 | 12937.1 | 13232.5 | 13570.6 | 13713.7 | 13658.9 | 13278.2 | 12626.5 | 11932.1 | 11688.5 |
| 45°   | 13631.5 | 13619.3 | 13981.7 | 14456.8 | 14737.0 | 14645.6 | 14134.0 | 13430.5 | 12656.9 | 12404.1 |
| 47.5° | 14158.3 | 14164.4 | 14554.2 | 15142.0 | 15632.3 | 15665.8 | 15008.0 | 14249.7 | 13454.8 | 13168.6 |
| 50°   | 14539.0 | 14557.3 | 14974.5 | 15626.2 | 16296.2 | 16591.6 | 15900.3 | 15090.2 | 14280.1 | 13957.3 |
| 52.5° | 14633.4 | 14666.9 | 15169.4 | 15933.8 | 16722.6 | 17286.0 | 16807.9 | 15897.3 | 15062.8 | 14755.2 |
| 55°   | 14130.9 | 14197.9 | 14834.4 | 15909.5 | 16984.5 | 17742.8 | 17605.8 | 16716.5 | 15851.6 | 15534.9 |
| 57.5° | 12976.7 | 13071.1 | 13814.2 | 15218.1 | 16926.6 | 18056.5 | 18224.0 | 17502.2 | 16640.4 | 16335.8 |
| 60°   | 11359.6 | 11472.2 | 12184.9 | 13716.7 | 16110.5 | 18172.2 | 18659.5 | 18266.7 | 17365.2 | 17069.8 |
| 62.5° | 8920.1  | 9066.3  | 9919.1  | 11715.9 | 14386.7 | 17633.2 | 19031.1 | 18958.0 | 18016.9 | 17648.4 |
| 65°   | 5722.4  | 5877.7  | 6776.1  | 8898.8  | 12087.4 | 15982.6 | 19146.8 | 19631.0 | 18705.2 | 18190.5 |
| 67.5° | 3450.5  | 3520.5  | 3965.2  | 5393.5  | 8834.9  | 13494.4 | 18166.2 | 20377.2 | 19509.2 | 18869.7 |
| 70°   | 2208.0  | 2247.5  | 2512.5  | 3167.3  | 4994.5  | 9846.0  | 15735.9 | 20517.2 | 20483.7 | 19567.1 |
| 72.5° | 1498.4  | 1510.5  | 1580.6  | 1876.0  | 2826.2  | 5594.5  | 11606.2 | 18574.2 | 21092.8 | 20465.5 |
| 75°   | 1096.4  | 1163.4  | 1276.0  | 1327.8  | 1605.0  | 2795.7  | 6651.3  | 13049.8 | 17776.3 | 18050.4 |
| 77.5° | 816.2   | 819.2   | 974.5   | 1035.5  | 1145.1  | 1489.2  | 2814.0  | 7284.7  | 11036.7 | 11588.0 |
| 80°   | 691.3   | 654.8   | 651.7   | 834.5   | 861.9   | 928.9   | 1257.8  | 2515.5  | 3953.0  | 2396.8  |
| 82.5° | 575.6   | 536.0   | 484.2   | 651.7   | 587.8   | 569.5   | 545.1   | 1023.3  | 1257.8  | 618.2   |
| 85°   | 402.0   | 383.7   | 365.5   | 426.4   | 335.0   | 286.3   | 261.9   | 478.1   | 529.9   | 261.9   |
| 87.5° | 173.6   | 179.7   | 182.7   | 188.8   | 140.1   | 100.5   | 100.5   | 134.0   | 134.0   | 103.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END C

| 90°     |
|---------|
| 6389.4  |
| 6429.0  |
| 6584.3  |
| 6849.2  |
| 7159.9  |
| 7467.5  |
| 7793.3  |
| 8040.0  |
| 8241.0  |
| 8429.8  |
| 8643.0  |
| 8865.3  |
| 9112.0  |
| 9480.5  |
| 9919.1  |
| 10436.8 |
| 11073.3 |
| 11749.4 |
| 12462.0 |
| 13253.8 |
| 14054.8 |
| 14834.4 |
| 15623.2 |
| 16405.9 |
| 17133.7 |
| 17691.1 |
| 18254.5 |
| 18918.4 |
| 19561.0 |
| 20368.0 |
| 17386.5 |
| 10336.3 |
| 1812.0  |
| 526.9   |
| 231.5   |
| 76.1    |
| 0.0     |

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