

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: P942010

Luminaire Tested: **GLAN-SB5D-827-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942010  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 45213 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 364.9  
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

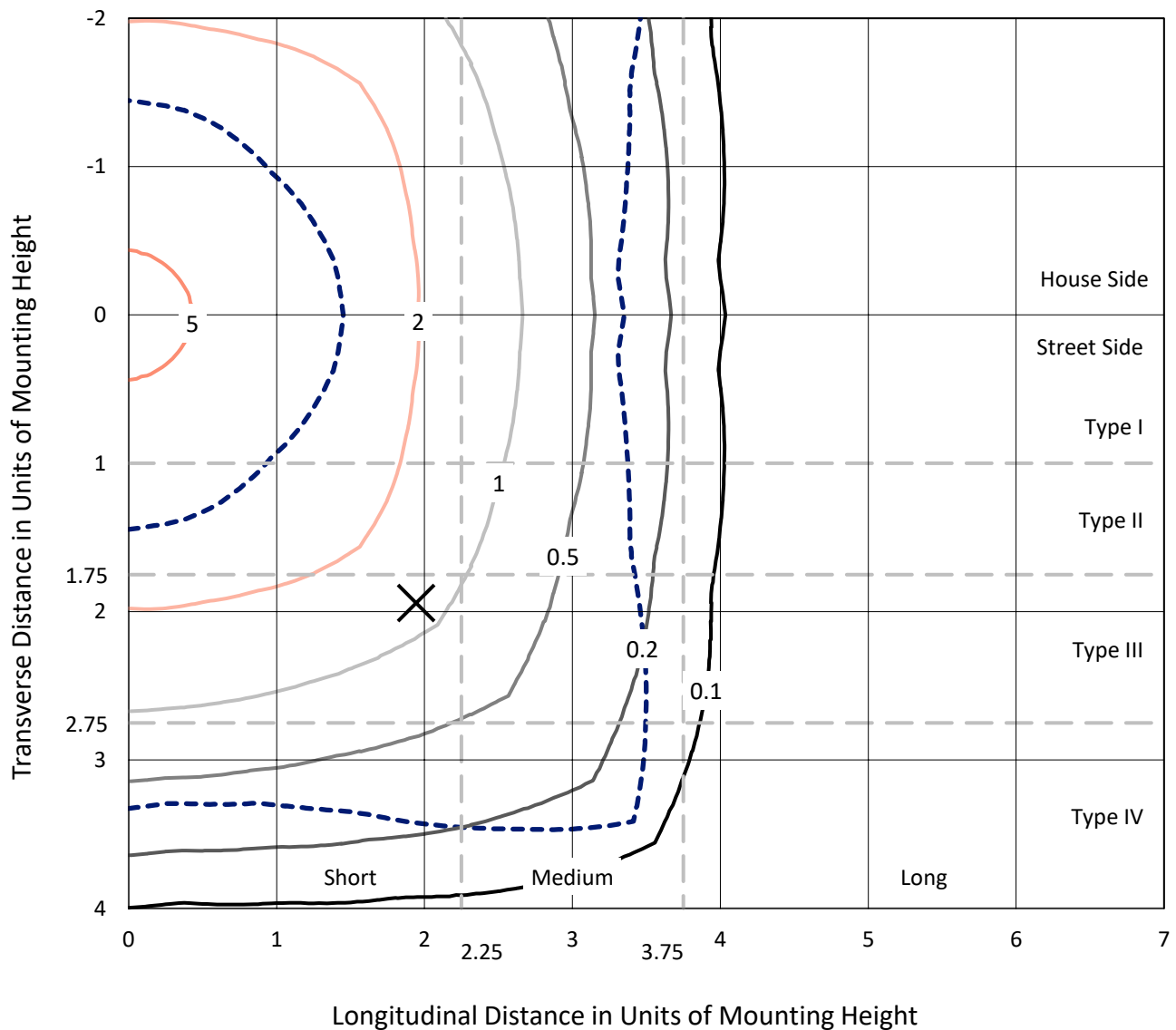


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## Iso-Footcandle Lines of Horizontal Illumination

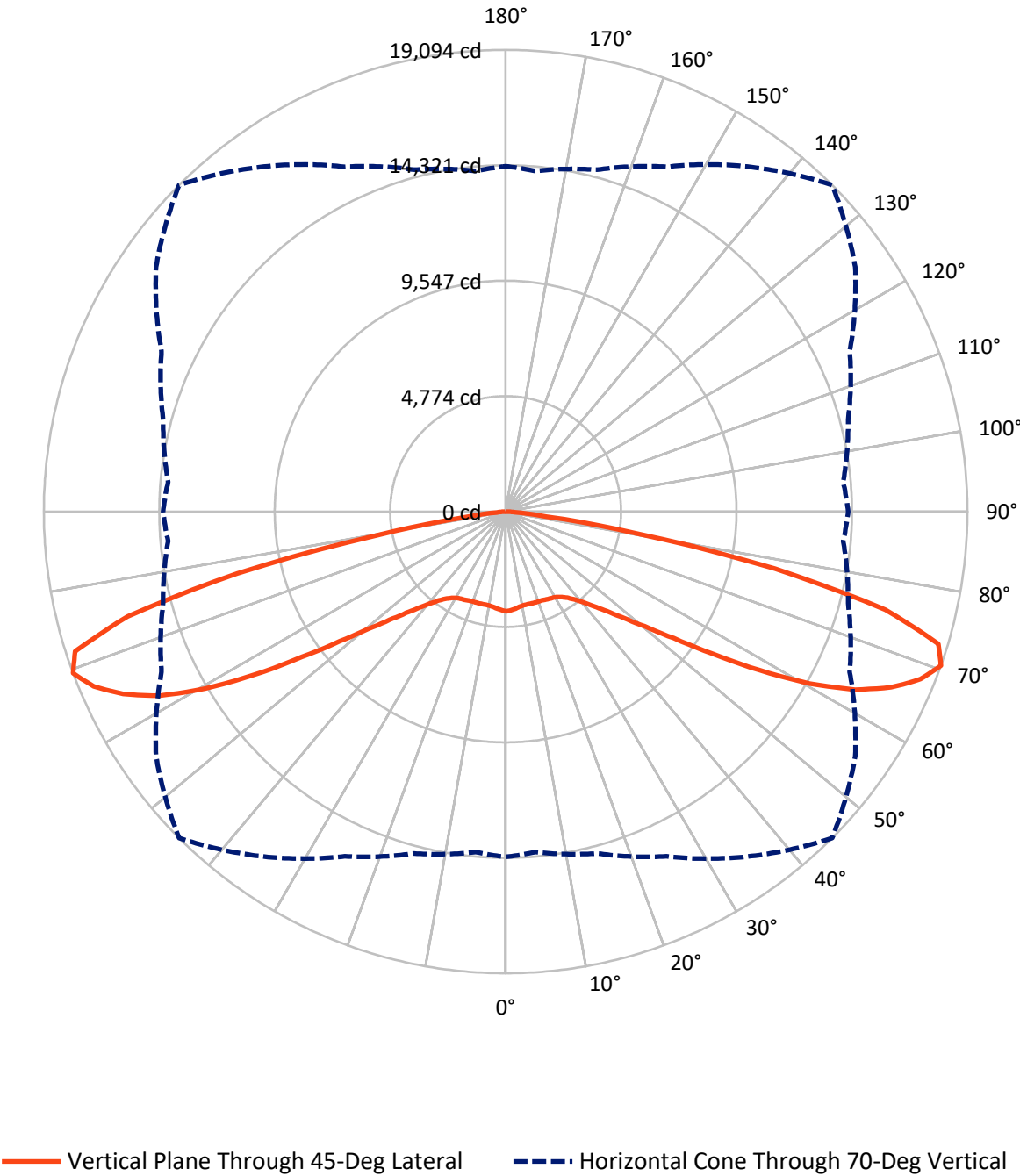
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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    | 22606.5  | 0.0    | 22606.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 22606.5  | 0.0    | 22606.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 45213.0  | 0.0    | 45213.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 383.7   | 0.8       |
| 10°-20°   | 1126.5  | 2.5       |
| 20°-30°   | 1874.7  | 4.1       |
| 30°-40°   | 2835.1  | 6.3       |
| 40°-50°   | 4711.3  | 10.4      |
| 50°-60°   | 8890.0  | 19.7      |
| 60°-70°   | 15011.1 | 33.2      |
| 70°-80°   | 9863.9  | 21.8      |
| 80°-90°   | 516.8   | 1.1       |
| 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°    | 45213.0 | 100.0     |
| 0°-180°   | 45213.0 | 100.0     |

**Coefficient of Utilization**



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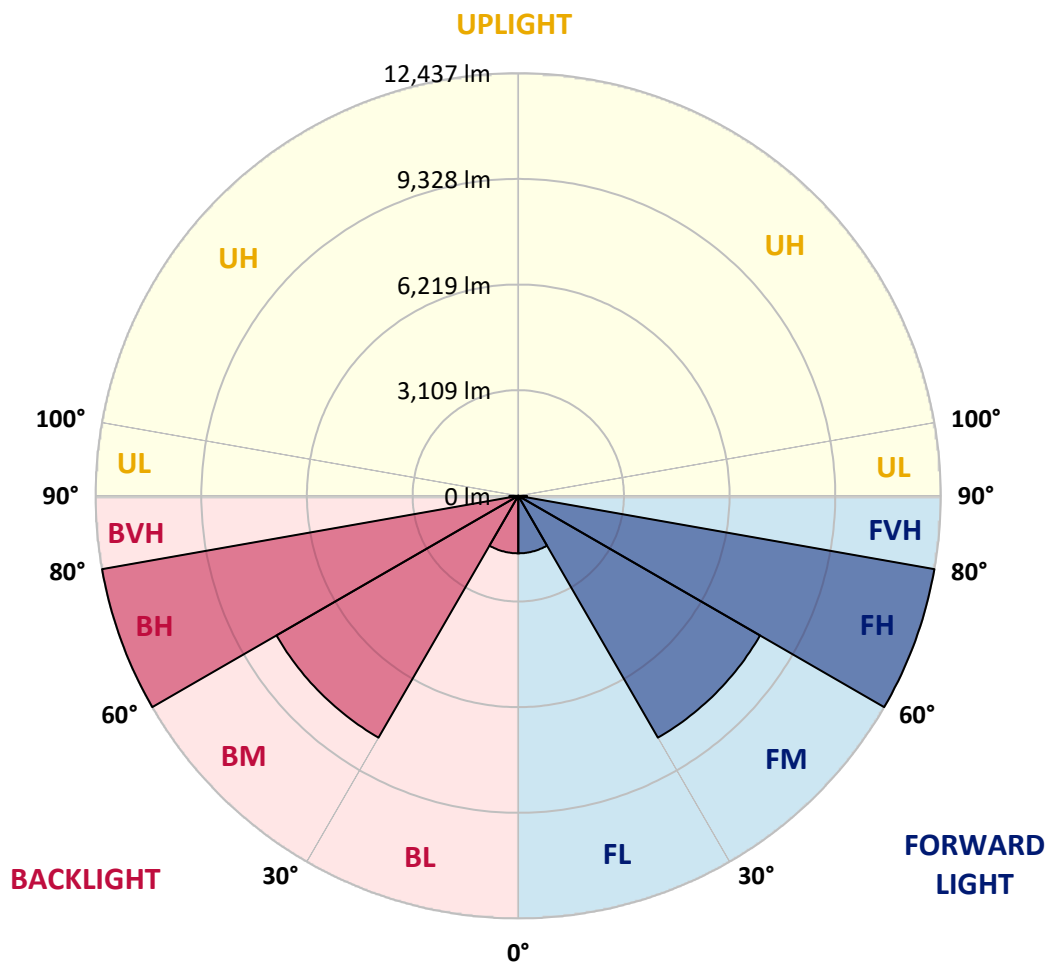
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1692.4  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 8218.2  | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 12437.5 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 258.4   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 1692.4  | 3.7       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 8218.2  | 18.2      | B4/8500                 |      |        |
| BH   | (60°-80°)   | 12437.5 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 258.4   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  | 4124.3  |
| 2.5°  | 4098.5  | 4110.2  | 4105.5  | 4096.1  | 4096.1  | 4089.1  | 4096.1  | 4100.8  | 4107.9  | 4112.6  |
| 5°    | 4044.4  | 4053.8  | 4051.5  | 4044.4  | 4046.8  | 4039.7  | 4044.4  | 4051.5  | 4056.2  | 4058.5  |
| 7.5°  | 3997.4  | 4006.8  | 4002.1  | 3990.4  | 3990.4  | 3983.3  | 3985.7  | 3992.7  | 3999.8  | 4002.1  |
| 10°   | 3985.7  | 3995.1  | 3981.0  | 3962.2  | 3955.1  | 3945.7  | 3948.1  | 3955.1  | 3969.2  | 3976.3  |
| 12.5° | 3990.4  | 3997.4  | 3983.3  | 3955.1  | 3948.1  | 3938.7  | 3938.7  | 3945.7  | 3964.5  | 3973.9  |
| 15°   | 4004.5  | 4011.5  | 3990.4  | 3959.8  | 3952.8  | 3945.7  | 3943.4  | 3952.8  | 3973.9  | 3990.4  |
| 17.5° | 4030.3  | 4037.4  | 4004.5  | 3962.2  | 3952.8  | 3955.1  | 3952.8  | 3959.8  | 3992.7  | 4023.3  |
| 20°   | 4053.8  | 4058.5  | 4013.9  | 3962.2  | 3952.8  | 3955.1  | 3952.8  | 3966.9  | 4009.2  | 4051.5  |
| 22.5° | 4060.9  | 4065.6  | 4023.3  | 3978.6  | 3971.6  | 3973.9  | 3971.6  | 3985.7  | 4025.6  | 4067.9  |
| 25°   | 4063.2  | 4070.3  | 4037.4  | 4002.1  | 4013.9  | 4018.6  | 4013.9  | 4016.2  | 4046.8  | 4084.4  |
| 27.5° | 4098.5  | 4107.9  | 4077.3  | 4046.8  | 4053.8  | 4051.5  | 4058.5  | 4065.6  | 4089.1  | 4126.7  |
| 30°   | 4171.3  | 4178.4  | 4152.5  | 4122.0  | 4117.3  | 4100.8  | 4122.0  | 4145.5  | 4171.3  | 4204.2  |
| 32.5° | 4291.2  | 4305.3  | 4272.4  | 4239.5  | 4218.3  | 4208.9  | 4225.4  | 4265.3  | 4300.6  | 4335.8  |
| 35°   | 4490.9  | 4500.3  | 4469.8  | 4408.7  | 4371.1  | 4371.1  | 4385.2  | 4436.9  | 4493.3  | 4537.9  |
| 37.5° | 4772.9  | 4784.7  | 4730.6  | 4657.8  | 4601.4  | 4601.4  | 4620.2  | 4674.2  | 4758.8  | 4822.3  |
| 40°   | 5116.1  | 5132.5  | 5064.4  | 4989.2  | 4935.1  | 4925.7  | 4949.2  | 5010.3  | 5090.2  | 5170.1  |
| 42.5° | 5529.7  | 5548.5  | 5459.2  | 5393.4  | 5351.1  | 5351.1  | 5362.8  | 5419.2  | 5492.1  | 5590.8  |
| 45°   | 6058.4  | 6091.3  | 5969.1  | 5903.3  | 5863.4  | 5872.8  | 5879.8  | 5929.2  | 5995.0  | 6107.8  |
| 47.5° | 6688.2  | 6721.1  | 6591.9  | 6523.7  | 6516.7  | 6561.3  | 6533.1  | 6568.4  | 6603.6  | 6732.9  |
| 50°   | 7402.7  | 7459.1  | 7369.8  | 7365.1  | 7379.2  | 7461.4  | 7395.6  | 7414.4  | 7374.5  | 7456.7  |
| 52.5° | 8276.9  | 8359.1  | 8342.7  | 8370.9  | 8528.3  | 8697.5  | 8547.1  | 8481.3  | 8330.9  | 8356.8  |
| 55°   | 9336.7  | 9461.3  | 9484.8  | 9654.0  | 10011.2 | 10356.7 | 10037.1 | 9771.5  | 9451.9  | 9393.1  |
| 57.5° | 10542.3 | 10641.0 | 10753.8 | 11099.3 | 11766.7 | 12380.1 | 11766.7 | 11179.2 | 10676.3 | 10556.4 |
| 60°   | 11839.5 | 11961.7 | 12069.9 | 12579.8 | 13571.5 | 14434.0 | 13552.7 | 12619.8 | 11954.7 | 11792.5 |
| 62.5° | 13233.1 | 13390.6 | 13465.8 | 14032.1 | 15188.4 | 16217.7 | 15204.8 | 14074.4 | 13336.5 | 13162.6 |
| 65°   | 14570.3 | 14699.6 | 14784.2 | 15388.1 | 16492.6 | 17524.3 | 16567.8 | 15453.9 | 14694.9 | 14466.9 |
| 67.5° | 15193.1 | 15263.6 | 15470.4 | 16154.2 | 17319.9 | 18497.2 | 17517.3 | 16227.1 | 15378.7 | 14979.2 |
| 70°   | 14281.2 | 14137.9 | 14636.1 | 15731.2 | 17418.6 | 19094.1 | 17644.2 | 15698.3 | 14659.6 | 14011.0 |
| 72.5° | 11035.8 | 10789.1 | 11653.9 | 13526.9 | 16290.5 | 18713.4 | 16403.3 | 13632.6 | 12192.1 | 10876.0 |
| 75°   | 6004.4  | 5724.7  | 6918.5  | 9287.4  | 12991.1 | 16220.0 | 13289.5 | 9552.9  | 7703.5  | 5959.7  |
| 77.5° | 1694.4  | 1588.6  | 2552.2  | 4493.3  | 7813.9  | 11388.3 | 8114.7  | 4592.0  | 3026.9  | 1795.4  |
| 80°   | 519.4   | 502.9   | 681.5   | 1353.6  | 3318.3  | 5454.5  | 3189.0  | 1370.1  | 867.2   | 547.6   |
| 82.5° | 307.9   | 282.0   | 338.4   | 493.5   | 846.0   | 1713.2  | 822.5   | 514.7   | 413.6   | 277.3   |
| 85°   | 176.3   | 164.5   | 199.8   | 239.7   | 284.4   | 364.3   | 237.4   | 244.4   | 220.9   | 148.1   |
| 87.5° | 72.9    | 65.8    | 77.6    | 75.2    | 65.8    | 84.6    | 63.5    | 75.2    | 89.3    | 58.8    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

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| 90°     |
|---------|
| 4124.3  |
| 4110.2  |
| 4058.5  |
| 4002.1  |
| 3976.3  |
| 3976.3  |
| 3992.7  |
| 4023.3  |
| 4053.8  |
| 4067.9  |
| 4082.0  |
| 4117.3  |
| 4197.2  |
| 4321.7  |
| 4521.5  |
| 4798.8  |
| 5144.3  |
| 5583.7  |
| 6103.1  |
| 6695.3  |
| 7407.4  |
| 8269.8  |
| 9301.5  |
| 10471.8 |
| 11651.5 |
| 13021.6 |
| 14354.1 |
| 14983.9 |
| 14166.1 |
| 11202.7 |
| 6347.5  |
| 1995.2  |
| 578.1   |
| 300.8   |
| 155.1   |
| 54.1    |
| 0.0     |