Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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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: McGRAW-EDISON

Report Number: P956675

Luminaire Tested: **GALN-SB9B-735-U-5NQ**

Issue Date: 1/21/2025

Report Generated By 670246001

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P956675 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 1/21/2025 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SB9B-735-U-5NQ |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (9) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 53746 lumens |
| Efficiency: | N/A |
| Efficacy: | 163.1 lumens/watt |
| Luminous Opening: | Rectangular (W 1.5' x L: 1.5' x H: 0') |
| IES Classification: | Type V - Short |
| BUG Rating: | B5 - U0 - G4 |
| Input Watts (W): | 329.5 |
| 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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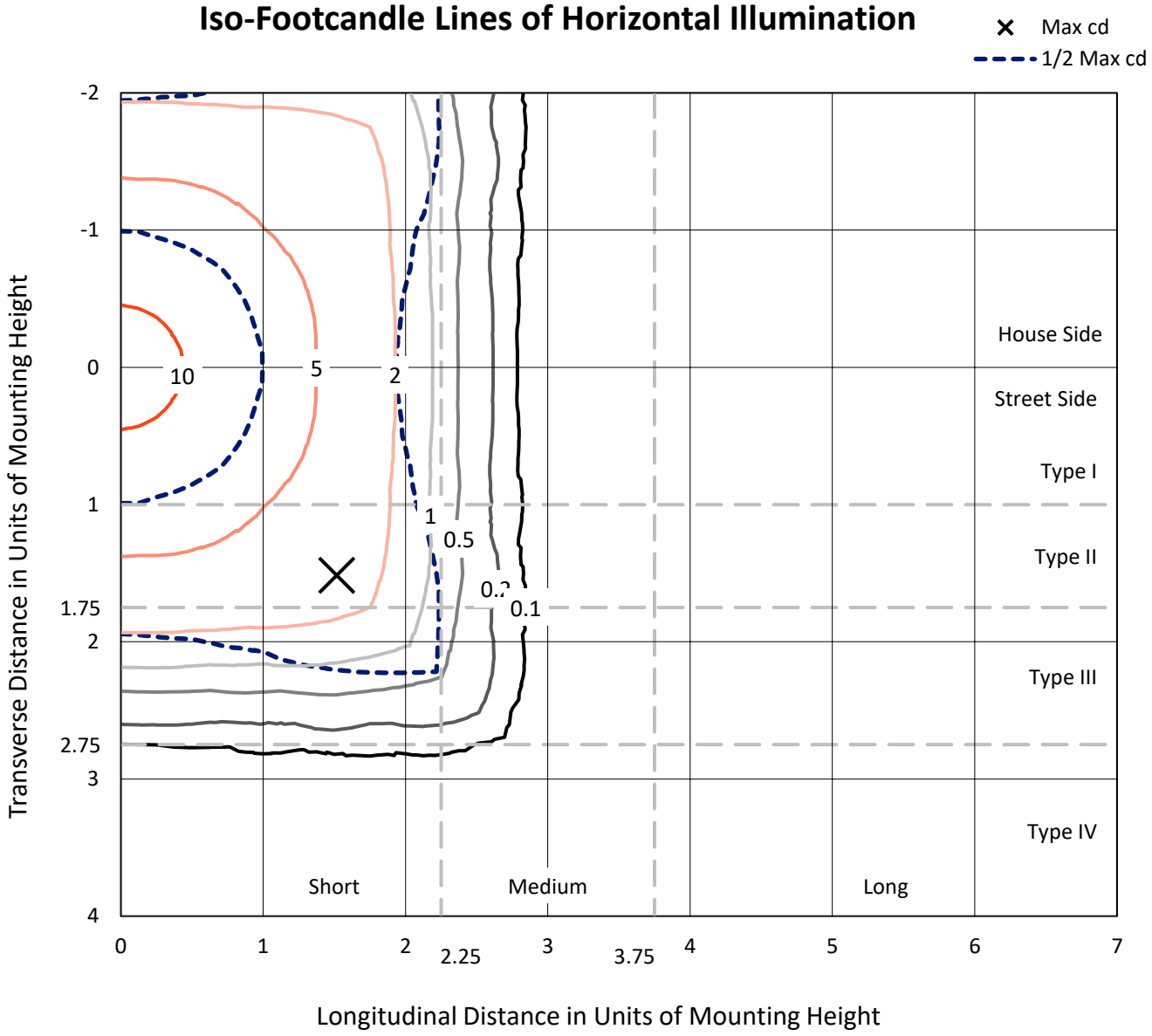
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type V - Short - N/A

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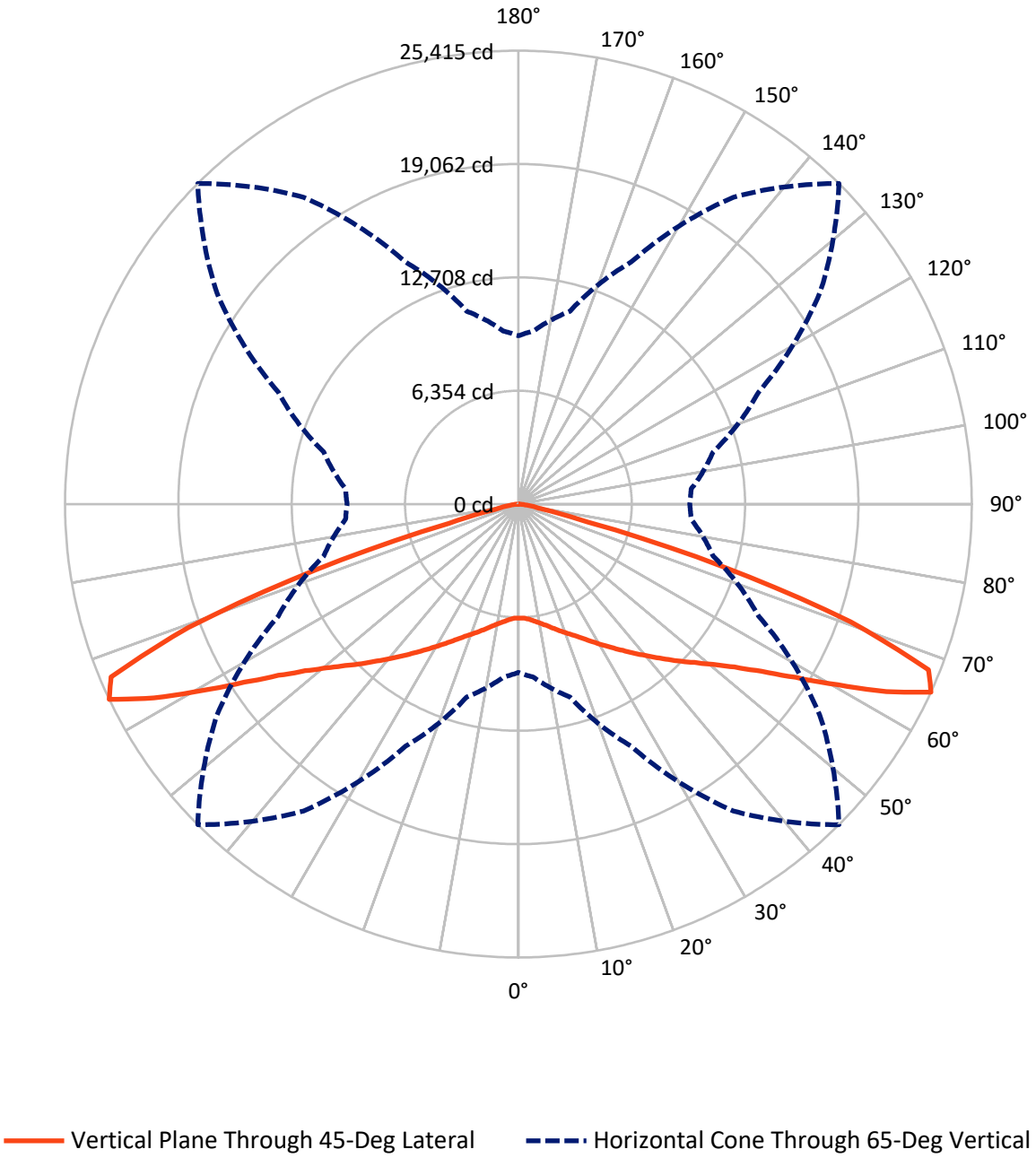
## Luminous Intensity Polar Plot



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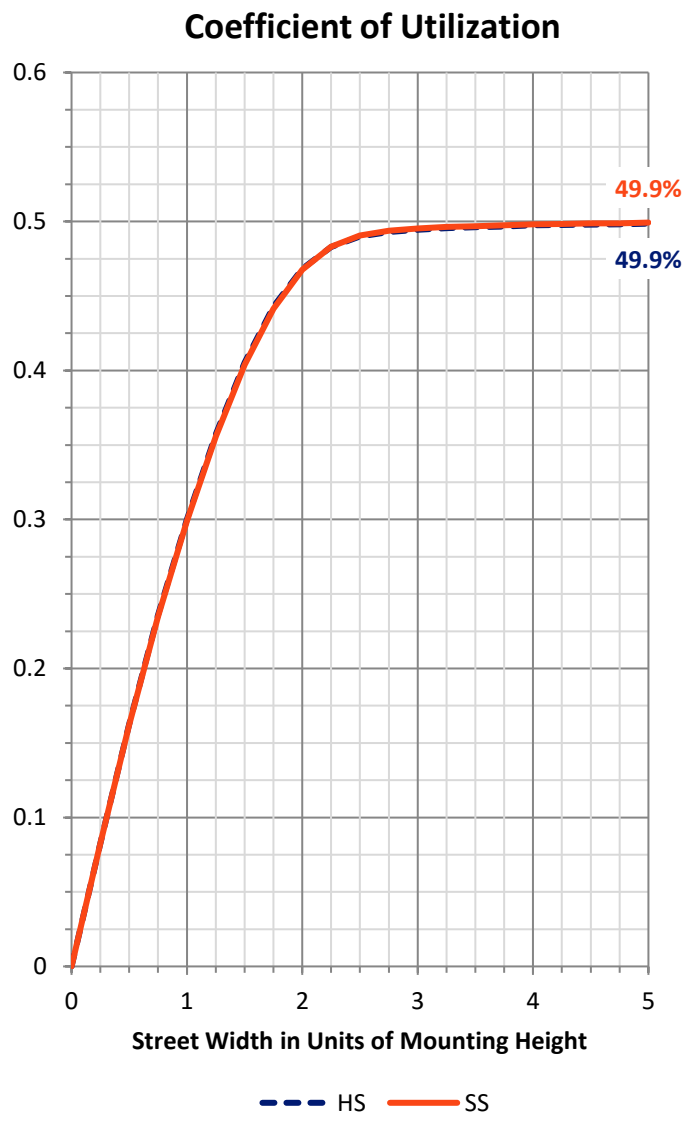
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 26873.0 | 0.0 | 26873.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Street Side** | Lumens | 26873.0 | 0.0 | 26873.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Total** | Lumens | 53746.0 | 0.0 | 53746.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 631.3 | 1.2 |
| 10°-20° | 2059.8 | 3.8 |
| 20°-30° | 3889.2 | 7.2 |
| 30°-40° | 6368.4 | 11.8 |
| 40°-50° | 9874.3 | 18.4 |
| 50°-60° | 14586.4 | 27.1 |
| 60°-70° | 13884.9 | 25.8 |
| 70°-80° | 2240.5 | 4.2 |
| 80°-90° | 211.2 | 0.4 |
| 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° | 53746.0 | 100.0 |
| 0°-180° | 53746.0 | 100.0 |



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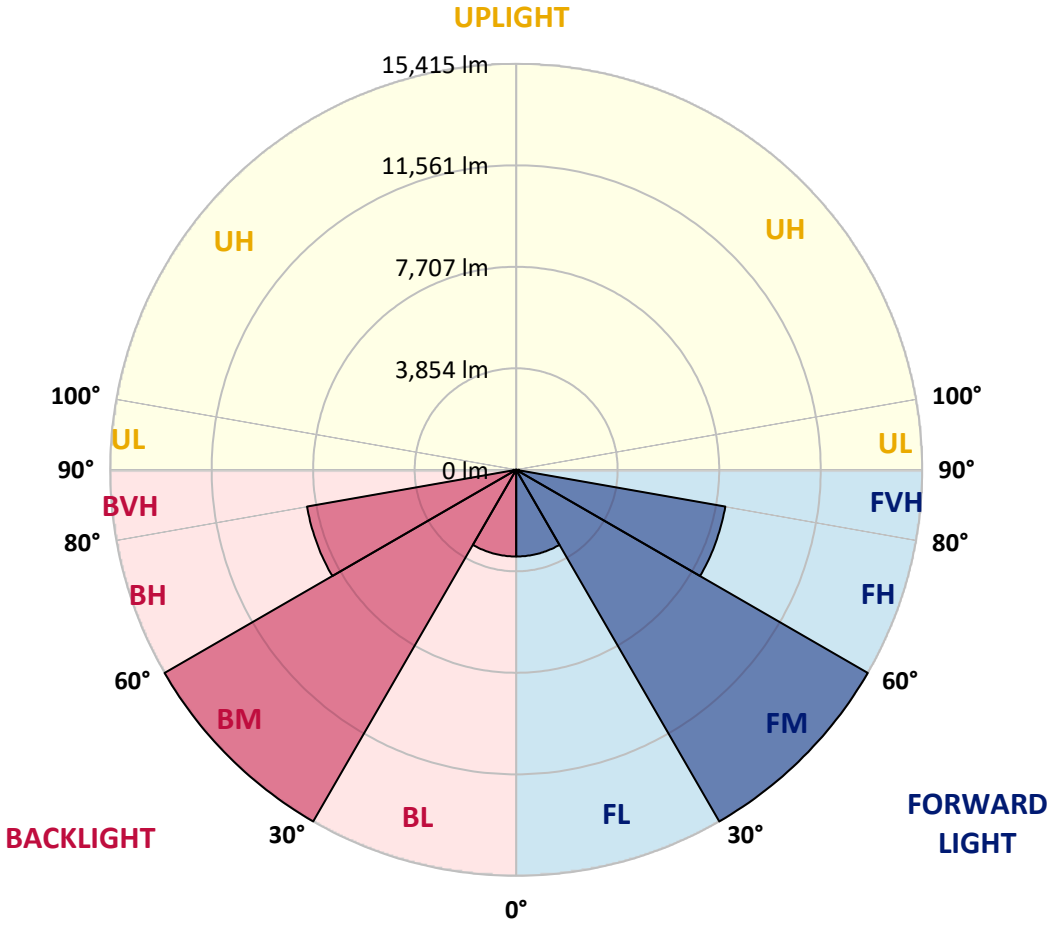
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 3290.1 | 6.1 | | | |
| FM | (30°-60°) | 15414.6 | 28.7 | | | |
| FH | (60°-80°) | 8062.7 | 15.0 | | | G4/12000 |
| FVH | (80°-90°) | 105.6 | 0.2 | | | G2/225 |
| BL | (0°-30°) | 3290.1 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 15414.6 | 28.7 | B5 | | |
| BH | (60°-80°) | 8062.7 | 15.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 105.6 | 0.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B5-U0-G4**
Type V Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 6396.3 | 6396.3 | 6396.3 | 6396.3 | 6396.3 | *6396.3* | 6396.3 | 6396.3 | 6396.3 | 6396.3 |
| 2.5° | 6439.5 | 6417.9 | 6434.1 | 6420.6 | 6409.8 | *6399.0* | 6404.4 | 6423.3 | 6431.4 | 6434.1 |
| 5° | 6525.7 | 6506.9 | 6515.0 | 6515.0 | 6496.1 | *6490.7* | 6493.4 | 6506.9 | 6523.1 | 6523.1 |
| 7.5° | 6666.0 | 6647.1 | 6666.0 | 6655.2 | 6639.0 | *6633.6* | 6630.9 | 6641.7 | 6666.0 | 6666.0 |
| 10° | 6835.9 | 6814.3 | 6825.1 | 6819.7 | 6800.8 | *6792.7* | 6790.0 | 6806.2 | 6827.8 | 6825.1 |
| 12.5° | 7021.9 | 6997.7 | 7011.1 | 6995.0 | 6989.6 | *6981.5* | 6981.5 | 6978.8 | 6992.3 | 6981.5 |
| 15° | 7229.6 | 7213.4 | 7218.8 | 7208.0 | 7216.1 | *7210.7* | 7189.1 | 7178.3 | 7183.7 | 7167.5 |
| 17.5° | 7474.9 | 7437.2 | 7456.1 | 7450.7 | 7450.7 | *7461.5* | 7426.4 | 7412.9 | 7423.7 | 7407.5 |
| 20° | 7758.1 | 7720.3 | 7728.4 | 7717.6 | 7704.2 | *7714.9* | 7671.8 | 7682.6 | 7690.7 | 7679.9 |
| 22.5° | 8068.2 | 8019.7 | 8017.0 | 8022.4 | 7992.7 | *7995.4* | 7965.7 | 7992.7 | 8008.9 | 7979.2 |
| 25° | 8386.4 | 8335.2 | 8370.2 | 8356.7 | 8319.0 | *8327.1* | 8305.5 | 8332.5 | 8345.9 | 8308.2 |
| 27.5° | 8723.5 | 8688.4 | 8720.8 | 8728.9 | 8683.0 | *8715.4* | 8683.0 | 8707.3 | 8720.8 | 8664.1 |
| 30° | 9117.2 | 9082.1 | 9111.8 | 9133.4 | 9079.4 | *9130.7* | 9103.7 | 9119.9 | 9122.6 | 9055.1 |
| 32.5° | 9545.9 | 9492.0 | 9567.5 | 9578.3 | 9519.0 | *9581.0* | 9545.9 | 9567.5 | 9581.0 | 9489.3 |
| 35° | 10069.1 | 10001.7 | 10087.9 | 10074.5 | 10023.2 | *10074.5* | 10042.1 | 10074.5 | 10106.8 | 9996.3 |
| 37.5° | 10632.7 | 10562.5 | 10654.2 | 10630.0 | 10581.4 | *10616.5* | 10597.6 | 10619.2 | 10670.4 | 10551.8 |
| 40° | 11252.9 | 11166.6 | 11290.6 | 11247.5 | 11201.6 | *11196.2* | 11207.0 | 11220.5 | 11287.9 | 11155.8 |
| 42.5° | 11916.2 | 11824.5 | 12010.6 | 11943.2 | 11878.5 | *11835.3* | 11870.4 | 11897.4 | 11962.1 | 11813.8 |
| 45° | 12674.0 | 12568.8 | 12811.5 | 12730.6 | 12628.1 | *12539.1* | 12595.8 | 12636.2 | 12730.6 | 12552.6 |
| 47.5° | 13509.9 | 13391.3 | 13650.1 | 13625.9 | 13458.7 | *13264.5* | 13394.0 | 13509.9 | 13580.0 | 13364.3 |
| 50° | 14327.0 | 14235.3 | 14575.1 | 14604.7 | 14399.8 | *14127.4* | 14308.1 | 14483.4 | 14502.3 | 14219.1 |
| 52.5° | 15092.8 | 15001.1 | 15494.6 | 15680.7 | 15497.3 | *15173.7* | 15365.2 | 15543.1 | 15400.2 | 15033.5 |
| 55° | 15704.9 | 15629.4 | 16257.7 | 16737.7 | 16799.8 | *16532.8* | 16646.1 | 16640.7 | 16171.5 | 15607.9 |
| 57.5° | 15853.3 | 15842.5 | 16635.3 | 17651.9 | 18299.1 | *18331.4* | 18107.6 | 17535.9 | 16524.7 | 15767.0 |
| 60° | 15179.1 | 15246.5 | 16335.9 | 18129.2 | 19855.0 | *20572.3* | 19604.2 | 17972.8 | 16122.9 | 15071.2 |
| 62.5° | 13162.1 | 13340.0 | 14653.3 | 17546.7 | 21111.6 | *23150.2* | 20804.2 | 17309.4 | 14472.6 | 13100.0 |
| 65° | *9432.7* | *9742.8* | *11193.5* | *14974.2* | *20998.3* | *25415.4* | *20631.6* | *14852.8* | *11301.4* | *9718.5* |
| 67.5° | 4279.5 | 4595.0 | 5827.3 | 10252.4 | 18253.2 | *24800.5* | 18210.1 | 10360.3 | 6118.6 | 4611.2 |
| 70° | 1550.5 | 1604.5 | 2000.9 | 4104.2 | 11665.4 | *19760.6* | 12164.3 | 4133.9 | 2127.6 | 1709.6 |
| 72.5° | 938.4 | 946.5 | 1030.1 | 1469.6 | 4053.0 | *11997.1* | 4225.6 | 1518.2 | 1051.7 | 933.0 |
| 75° | 595.9 | 590.6 | 733.5 | 898.0 | 1437.3 | *4047.6* | 1507.4 | 898.0 | 730.8 | 666.1 |
| 77.5° | 428.8 | 442.2 | 525.8 | 671.5 | 906.1 | *1372.6* | 889.9 | 641.8 | 525.8 | 431.5 |
| 80° | 320.9 | 329.0 | 382.9 | 523.1 | 636.4 | *854.8* | 566.3 | 474.6 | 396.4 | 269.7 |
| 82.5° | 231.9 | 231.9 | 250.8 | 380.2 | 388.3 | *461.1* | 307.4 | 334.4 | 261.6 | 191.5 |
| 85° | 137.5 | 134.8 | 156.4 | 226.5 | 202.2 | *169.9* | 140.2 | 204.9 | 164.5 | 118.6 |
| 87.5° | 48.5 | 51.2 | 48.5 | 64.7 | 53.9 | *45.8* | 43.1 | 56.6 | 45.8 | 40.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | *0.0* | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

| 90° |
|---|
| 6396.3 |
| 6434.1 |
| 6523.1 |
| 6657.9 |
| 6819.7 |
| 6986.9 |
| 7170.2 |
| 7421.0 |
| 7704.2 |
| 8008.9 |
| 8351.3 |
| 8707.3 |
| 9095.6 |
| 9551.3 |
| 10063.7 |
| 10624.6 |
| 11198.9 |
| 11892.0 |
| 12644.3 |
| 13437.1 |
| 14254.2 |
| 15044.3 |
| 15626.7 |
| 15718.4 |
| 14947.2 |
| 13019.1 |
| *9602.6* |
| 4543.8 |
| 1688.1 |
| 949.2 |
| 671.5 |
| 439.5 |
| 277.7 |
| 191.5 |
| 116.0 |
| 37.8 |
| 0.0 |

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