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: P955477

Luminaire Tested: **GALN-SB8B-935-U-5MQ**

Issue Date: 1/21/2025

Report Generated By 670246001

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**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P955477 |
| | 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: | McGRAW-EDISON |
| Catalog Number: | GALN-SB8B-935-U-5MQ |
| Description: | GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE |
| | (8) 90 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS |
| Light Source: | - |
| Ballast/Driver: | - |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 33172 lumens |
| Efficiency: | N/A |
| Efficacy: | 113.3 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): | 292.8 |
| 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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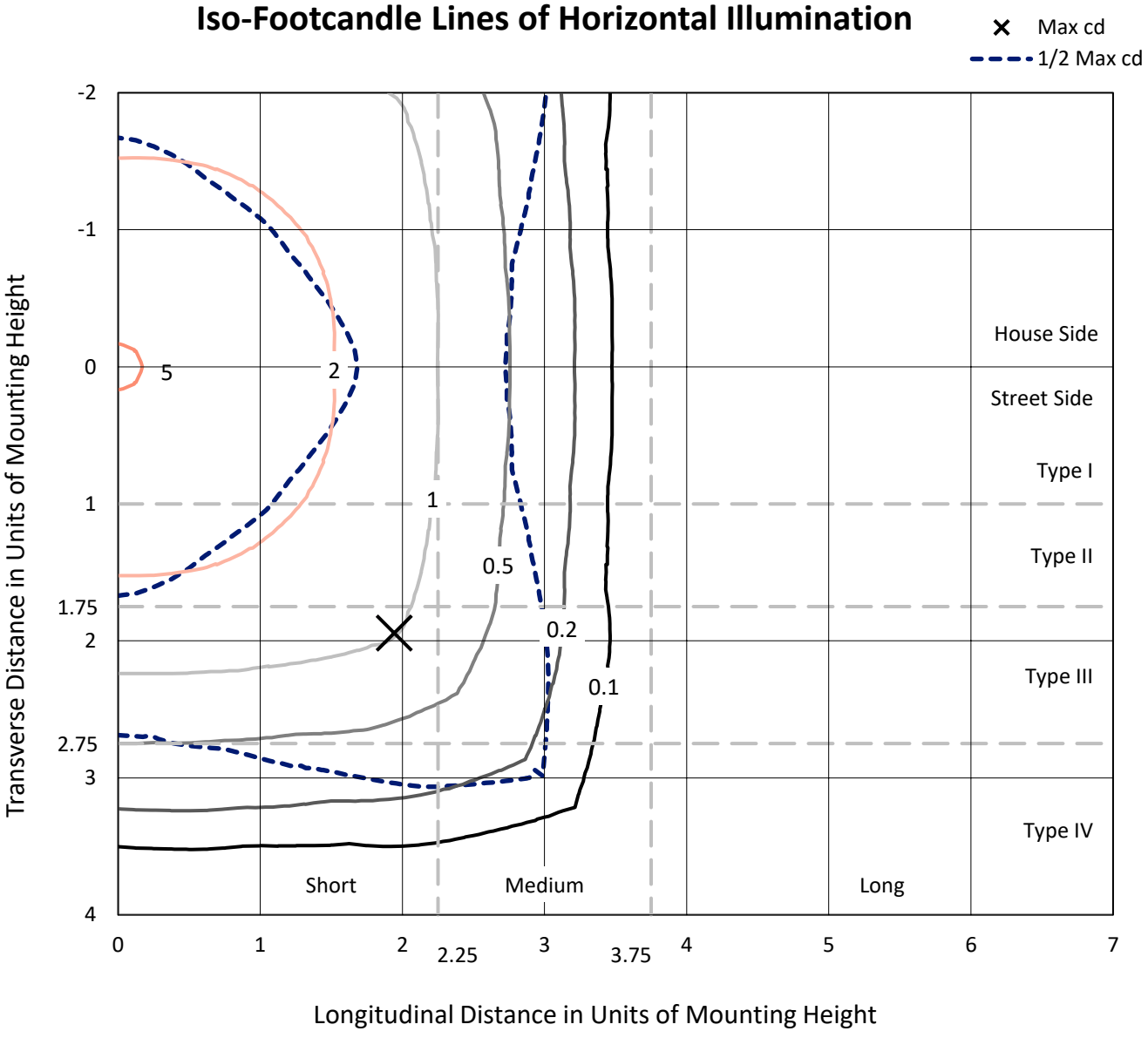
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type V - Short - N/A

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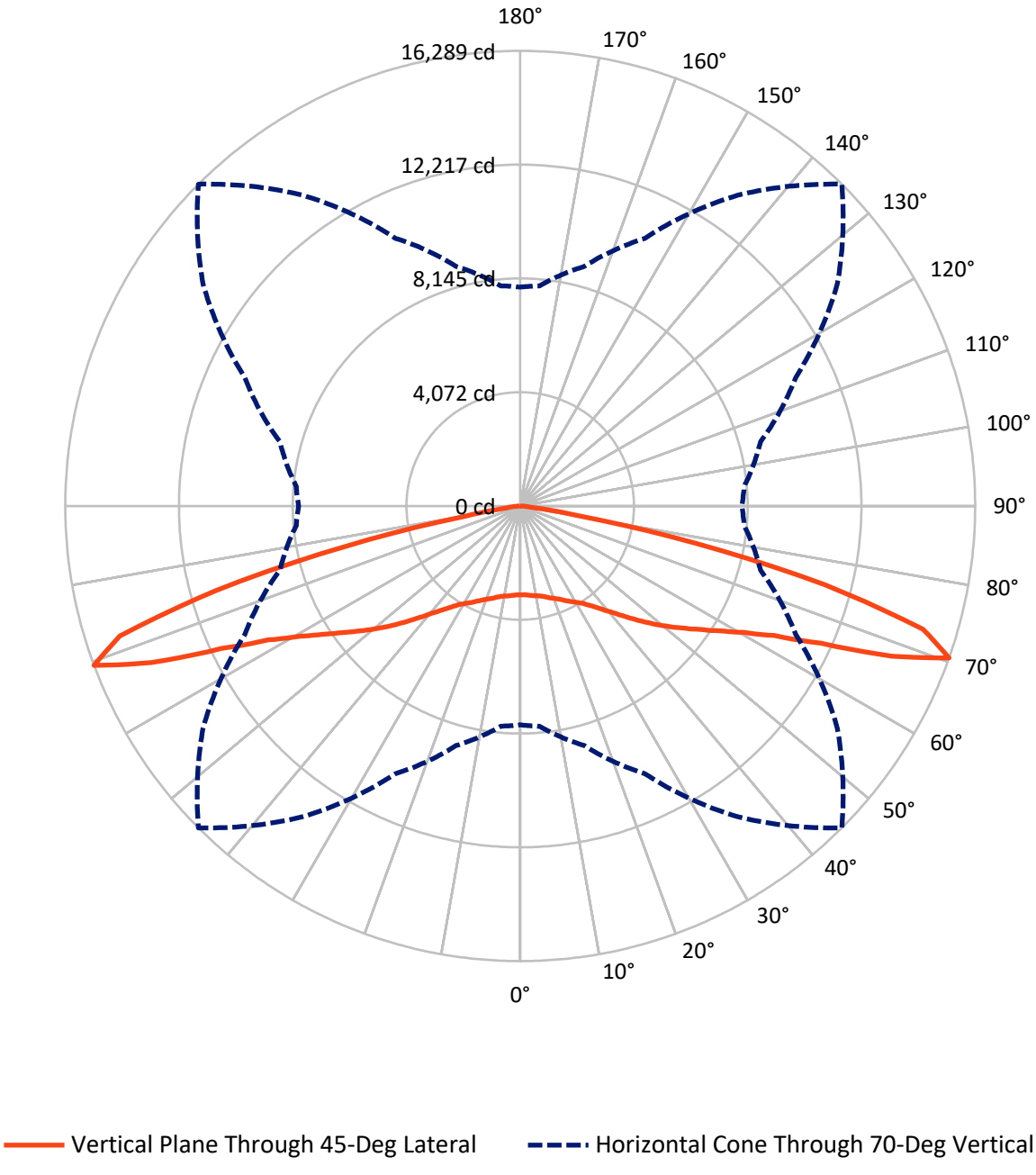
## Luminous Intensity Polar Plot



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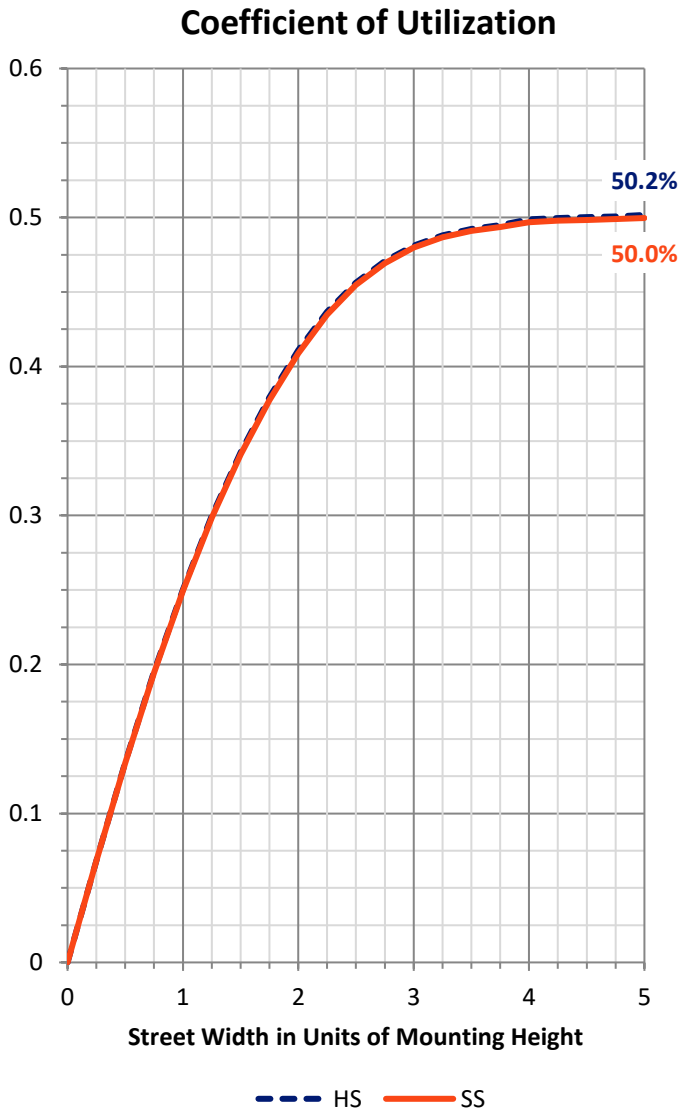
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 16586.0 | 0.0 | 16586.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Street Side** | Lumens | 16586.0 | 0.0 | 16586.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Total** | Lumens | 33172.0 | 0.0 | 33172.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 308.7 | 0.9 |
| 10°-20° | 957.2 | 2.9 |
| 20°-30° | 1710.7 | 5.2 |
| 30°-40° | 2773.0 | 8.4 |
| 40°-50° | 4516.8 | 13.6 |
| 50°-60° | 6886.6 | 20.8 |
| 60°-70° | 10245.0 | 30.9 |
| 70°-80° | 5583.9 | 16.8 |
| 80°-90° | 190.1 | 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° | 33172.0 | 100.0 |
| 0°-180° | 33172.0 | 100.0 |



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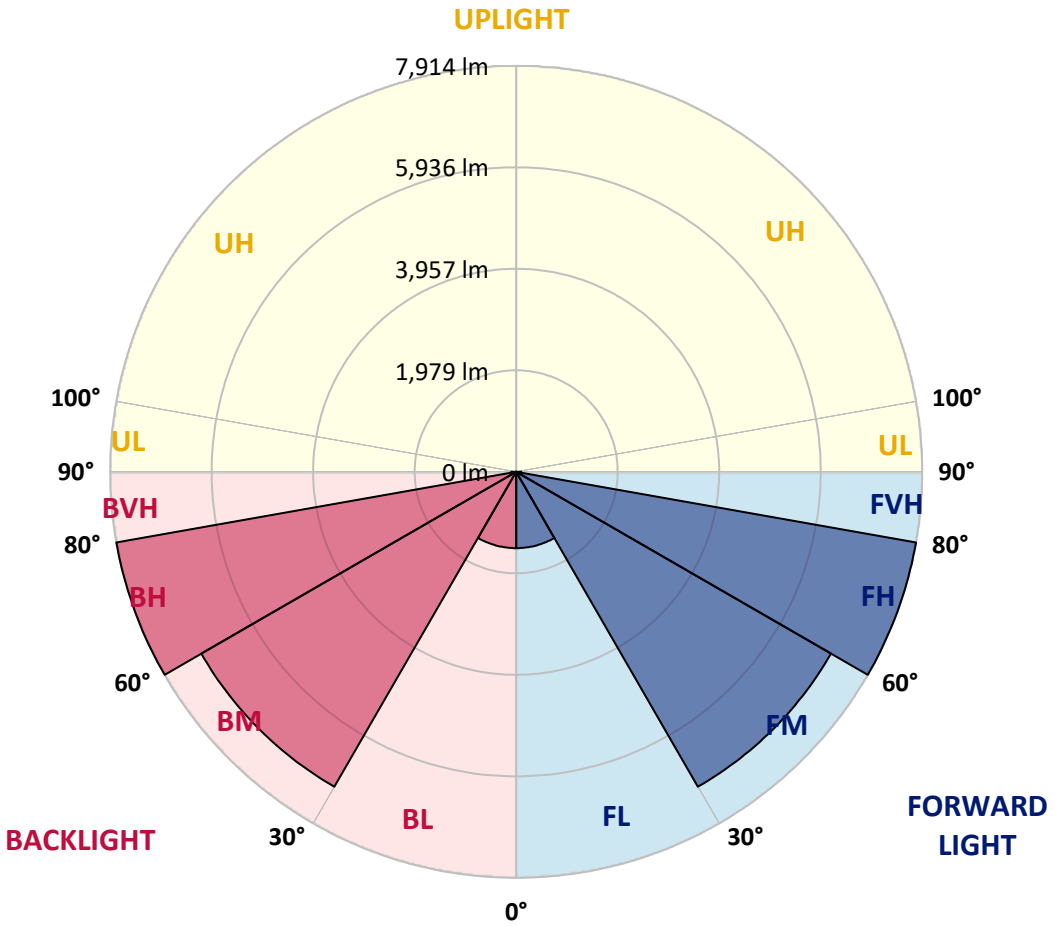
**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 1488.3 | 4.5 | | | |
| FM | (30°-60°) | 7088.2 | 21.4 | | | |
| FH | (60°-80°) | 7914.4 | 23.9 | | | G4/12000 |
| FVH | (80°-90°) | 95.1 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1488.3 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 7088.2 | 21.4 | B4/8500 | | |
| BH | (60°-80°) | 7914.4 | 23.9 | B5 | | G4/12000 |
| BVH | (80°-90°) | 95.1 | 0.3 | | | G1/100 |
| 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° | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 | 3177.5 |
| 2.5° | 3192.5 | 3195.9 | 3189.2 | 3185.9 | 3182.5 | 3177.5 | 3179.2 | 3187.5 | 3194.2 | 3192.5 |
| 5° | 3219.2 | 3222.5 | 3217.5 | 3215.8 | 3209.2 | 3207.5 | 3207.5 | 3215.8 | 3220.8 | 3217.5 |
| 7.5° | 3249.1 | 3254.1 | 3245.8 | 3244.1 | 3240.8 | 3237.5 | 3235.8 | 3244.1 | 3249.1 | 3249.1 |
| 10° | 3277.5 | 3282.5 | 3275.8 | 3270.8 | 3267.5 | 3267.5 | 3264.1 | 3270.8 | 3279.1 | 3277.5 |
| 12.5° | 3307.4 | 3310.8 | 3304.1 | 3300.8 | 3300.8 | 3305.8 | 3300.8 | 3304.1 | 3310.8 | 3307.4 |
| 15° | 3344.1 | 3345.7 | 3344.1 | 3349.1 | 3357.4 | 3374.0 | 3359.1 | 3355.7 | 3359.1 | 3350.7 |
| 17.5° | 3394.0 | 3397.4 | 3404.0 | 3415.7 | 3427.3 | 3457.3 | 3430.7 | 3422.3 | 3422.3 | 3405.7 |
| 20° | 3455.7 | 3460.6 | 3470.6 | 3490.6 | 3505.6 | 3533.9 | 3507.3 | 3495.6 | 3490.6 | 3469.0 |
| 22.5° | 3520.6 | 3528.9 | 3543.9 | 3570.6 | 3597.2 | 3623.9 | 3597.2 | 3577.2 | 3562.2 | 3533.9 |
| 25° | 3595.5 | 3605.5 | 3628.9 | 3672.2 | 3708.8 | 3747.1 | 3715.5 | 3675.5 | 3645.5 | 3605.5 |
| 27.5° | 3702.1 | 3713.8 | 3742.1 | 3795.4 | 3842.0 | 3875.3 | 3845.3 | 3793.7 | 3752.1 | 3703.8 |
| 30° | 3852.0 | 3863.7 | 3897.0 | 3953.6 | 3985.2 | 4006.9 | 3986.9 | 3946.9 | 3897.0 | 3842.0 |
| 32.5° | 4045.2 | 4060.2 | 4096.8 | 4150.1 | 4156.8 | 4160.1 | 4153.4 | 4133.5 | 4096.8 | 4030.2 |
| 35° | 4290.0 | 4306.7 | 4348.3 | 4391.6 | 4384.9 | 4391.6 | 4381.6 | 4374.9 | 4348.3 | 4271.7 |
| 37.5° | 4589.8 | 4609.8 | 4653.1 | 4686.4 | 4669.7 | 4661.4 | 4663.0 | 4664.7 | 4649.7 | 4564.8 |
| 40° | 4937.8 | 4964.5 | 4996.1 | 5031.1 | 5002.8 | 4977.8 | 4994.5 | 5007.8 | 4994.5 | 4907.9 |
| 42.5° | 5295.9 | 5334.2 | 5367.5 | 5417.5 | 5394.1 | 5362.5 | 5385.8 | 5400.8 | 5372.5 | 5279.2 |
| 45° | 5693.9 | 5730.6 | 5773.9 | 5848.8 | 5832.1 | 5798.8 | 5832.1 | 5835.5 | 5787.2 | 5677.3 |
| 47.5° | 6105.3 | 6143.6 | 6208.5 | 6308.4 | 6301.8 | 6265.1 | 6308.4 | 6285.1 | 6223.5 | 6091.9 |
| 50° | 6495.0 | 6548.3 | 6648.2 | 6788.1 | 6801.4 | 6756.4 | 6814.7 | 6769.7 | 6666.5 | 6501.6 |
| 52.5° | 6861.3 | 6918.0 | 7076.2 | 7266.0 | 7314.3 | 7256.0 | 7334.3 | 7256.0 | 7101.2 | 6889.7 |
| 55° | 7246.0 | 7309.3 | 7497.5 | 7745.7 | 7842.2 | 7798.9 | 7872.2 | 7754.0 | 7534.2 | 7277.7 |
| 57.5° | 7699.0 | 7737.3 | 7962.2 | 8256.9 | 8420.1 | 8430.1 | 8463.4 | 8263.6 | 7997.1 | 7705.7 |
| 60° | 8190.3 | 8243.6 | 8488.4 | 8841.5 | 9099.6 | 9182.9 | 9147.9 | 8851.5 | 8541.7 | 8207.0 |
| 62.5° | 8819.8 | 8878.1 | 9171.2 | 9594.2 | 10002.2 | 10208.7 | 10072.2 | 9642.5 | 9259.5 | 8858.1 |
| 65° | 9341.1 | 9406.0 | 9935.6 | 10690.0 | 11432.8 | 11847.5 | 11504.4 | 10713.4 | 10023.9 | 9457.7 |
| 67.5° | 8963.0 | 9043.0 | 9874.0 | 11259.6 | 13106.5 | 14343.9 | 13169.8 | 11429.5 | 10078.8 | 9311.1 |
| 70° | 7833.9 | 7908.9 | 8878.1 | 10571.8 | 13577.8 | 16289.0 | 13860.9 | 10883.2 | 8909.8 | 8050.4 |
| 72.5° | 5201.0 | 5442.4 | 6423.3 | 8455.1 | 12123.9 | 15073.3 | 12243.8 | 8283.6 | 5958.7 | 5189.3 |
| 75° | 1725.3 | 1918.5 | 2588.0 | 4383.3 | 8120.4 | 11272.9 | 7730.7 | 3878.7 | 2050.1 | 1475.5 |
| 77.5° | 434.7 | 501.3 | 691.1 | 1254.0 | 3239.2 | 6418.4 | 2916.1 | 1024.2 | 557.9 | 389.7 |
| 80° | 211.5 | 233.2 | 333.1 | 418.0 | 811.0 | 2040.1 | 761.1 | 393.0 | 263.1 | 203.2 |
| 82.5° | 116.6 | 118.2 | 188.2 | 236.5 | 301.4 | 527.9 | 313.1 | 229.8 | 151.5 | 123.2 |
| 85° | 71.6 | 69.9 | 99.9 | 126.6 | 126.6 | 188.2 | 149.9 | 126.6 | 86.6 | 76.6 |
| 87.5° | 28.3 | 28.3 | 36.6 | 40.0 | 35.0 | 48.3 | 38.3 | 41.6 | 33.3 | 31.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END C

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| 90° |
|---|
| 3177.5 |
| 3194.2 |
| 3219.2 |
| 3249.1 |
| 3277.5 |
| 3305.8 |
| 3350.7 |
| 3405.7 |
| 3469.0 |
| 3532.3 |
| 3603.9 |
| 3702.1 |
| 3842.0 |
| 4031.9 |
| 4271.7 |
| 4564.8 |
| 4907.9 |
| 5285.9 |
| 5688.9 |
| 6083.6 |
| 6498.3 |
| 6869.7 |
| 7242.7 |
| 7665.7 |
| 8153.7 |
| 8788.2 |
| 9364.4 |
| 9196.2 |
| *7935.5* |
| 5021.1 |
| 1395.6 |
| 348.1 |
| 186.5 |
| 123.2 |
| 79.9 |
| 33.3 |
| 0.0 |

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