

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: P941807

Luminaire Tested: **GALN-SB5C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37856 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

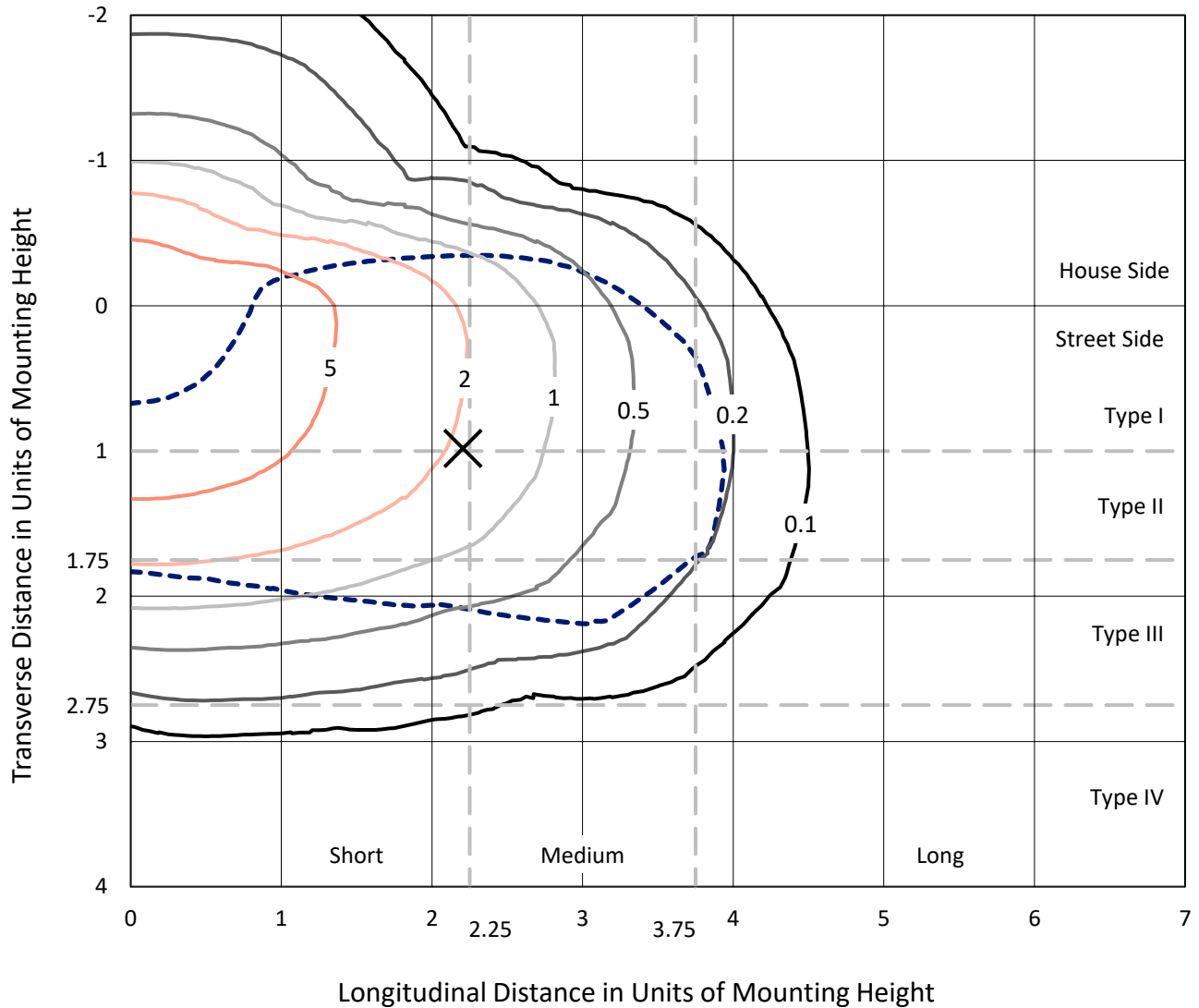
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

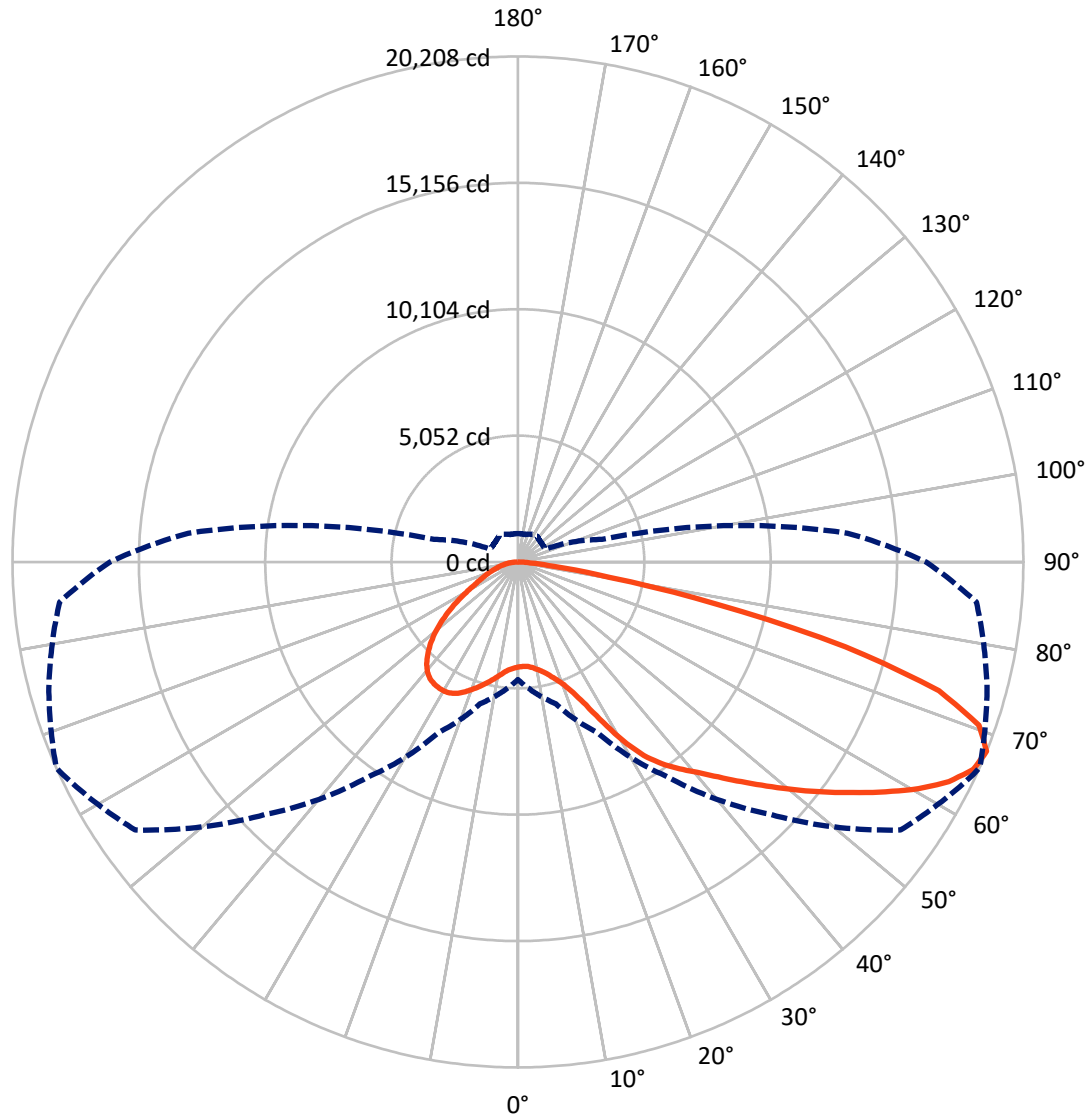
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9412.8 | 0.0 | 9412.8 |
| | % Fixture | 24.9 | 0.0 | 24.9 |
| Street Side | Lumens | 28443.2 | 0.0 | 28443.2 |
| | % Fixture | 75.1 | 0.0 | 75.1 |
| Total | Lumens | 37856.0 | 0.0 | 37856.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 416.3 | 1.1 |
| 10°-20° | 1375.4 | 3.6 |
| 20°-30° | 2650.9 | 7.0 |
| 30°-40° | 4648.1 | 12.3 |
| 40°-50° | 6910.1 | 18.3 |
| 50°-60° | 8759.3 | 23.1 |
| 60°-70° | 8570.7 | 22.6 |
| 70°-80° | 4088.3 | 10.8 |
| 80°-90° | 436.9 | 1.2 |
| 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° | 37856.0 | 100.0 |
| 0°-180° | 37856.0 | 100.0 |

Coefficient of Utilization



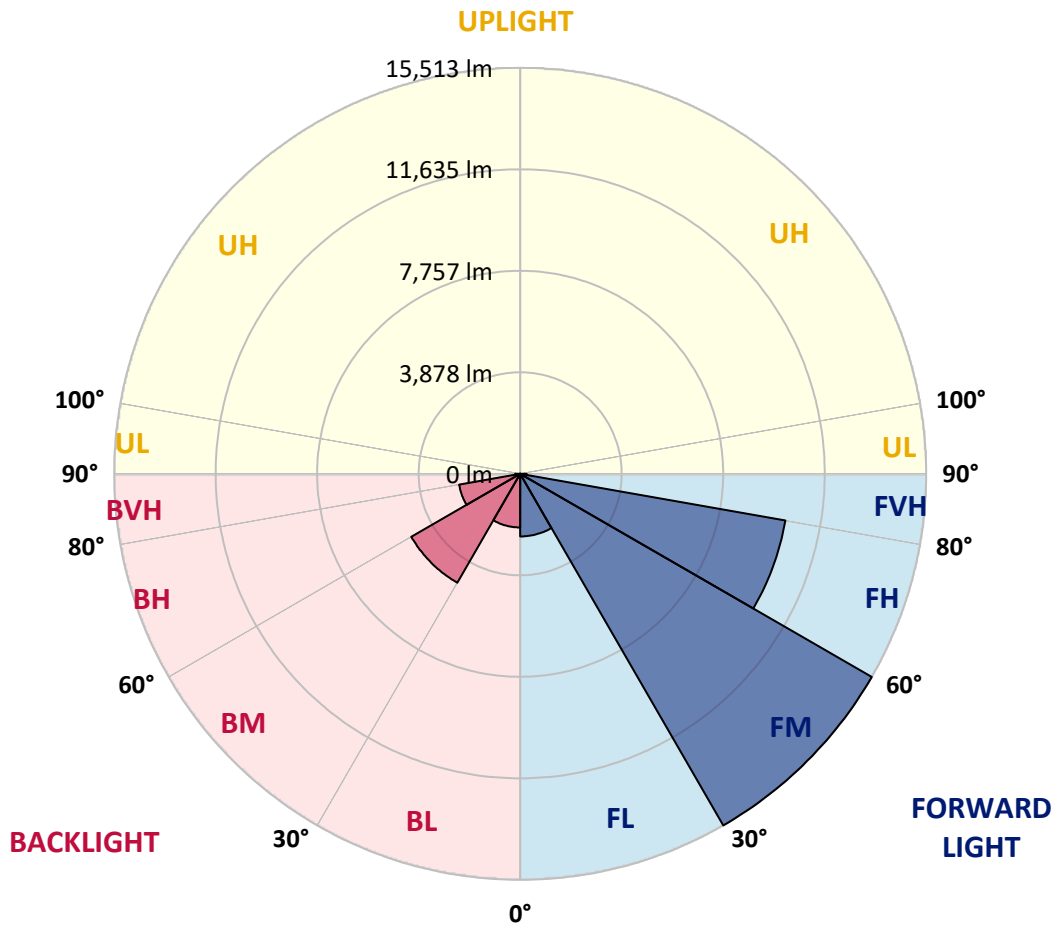
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2392.1 | 6.3 | | | |
| FM (30°-60°) | 15513.1 | 41.0 | | | |
| FH (60°-80°) | 10290.3 | 27.2 | | | G4/12000 |
| FVH (80°-90°) | 247.7 | 0.7 | | | G3/500 |
| BL (0°-30°) | 2050.4 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 4804.4 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 2368.7 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 189.2 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 |
| 2.5° | 4155.0 | 4178.8 | 4172.9 | 4162.9 | 4160.9 | 4164.9 | 4170.9 | 4176.9 | 4174.9 | 4184.8 |
| 5° | 4143.0 | 4166.9 | 4164.9 | 4164.9 | 4172.9 | 4188.8 | 4198.7 | 4208.7 | 4198.7 | 4210.7 |
| 7.5° | 4151.0 | 4168.9 | 4176.9 | 4184.8 | 4204.7 | 4234.5 | 4258.4 | 4280.3 | 4268.3 | 4282.3 |
| 10° | 4252.4 | 4266.4 | 4274.3 | 4274.3 | 4288.2 | 4322.0 | 4345.9 | 4385.7 | 4375.7 | 4397.6 |
| 12.5° | 4437.4 | 4451.3 | 4451.3 | 4443.4 | 4453.3 | 4475.2 | 4483.2 | 4526.9 | 4509.0 | 4544.8 |
| 15° | 4664.2 | 4692.0 | 4670.1 | 4656.2 | 4660.2 | 4682.1 | 4680.1 | 4713.9 | 4696.0 | 4725.8 |
| 17.5° | 4914.8 | 4950.6 | 4914.8 | 4912.8 | 4904.8 | 4928.7 | 4930.7 | 4960.5 | 4928.7 | 4950.6 |
| 20° | 5211.1 | 5260.8 | 5231.0 | 5241.0 | 5223.1 | 5233.0 | 5242.9 | 5286.7 | 5237.0 | 5252.9 |
| 22.5° | 5628.8 | 5688.5 | 5656.7 | 5694.4 | 5682.5 | 5674.6 | 5672.6 | 5750.1 | 5672.6 | 5678.5 |
| 25° | 6237.4 | 6309.0 | 6253.3 | 6305.1 | 6305.1 | 6330.9 | 6360.7 | 6460.2 | 6330.9 | 6293.1 |
| 27.5° | 7136.4 | 7208.1 | 7098.7 | 7130.5 | 7120.5 | 7184.2 | 7152.4 | 7399.0 | 7259.8 | 7198.1 |
| 30° | 8218.5 | 8345.7 | 8138.9 | 8130.9 | 8121.0 | 8222.4 | 8268.2 | 8431.3 | 8290.1 | 8228.4 |
| 32.5° | 9388.0 | 9521.2 | 9274.6 | 9203.0 | 9165.2 | 9226.9 | 9189.1 | 9320.3 | 9222.9 | 9127.4 |
| 35° | 10625.1 | 10756.4 | 10521.7 | 10382.5 | 10231.3 | 10102.0 | 9966.8 | 10000.6 | 9909.1 | 9763.9 |
| 37.5° | 11794.6 | 12035.3 | 11786.7 | 11637.5 | 11359.0 | 11106.4 | 10728.5 | 10571.4 | 10485.9 | 10352.6 |
| 40° | 12986.0 | 13123.3 | 12934.3 | 12807.0 | 12504.7 | 12108.9 | 11504.2 | 11172.1 | 11056.7 | 10927.4 |
| 42.5° | 13863.2 | 13994.4 | 13893.0 | 13805.5 | 13568.8 | 13109.3 | 12327.7 | 11912.0 | 11744.9 | 11599.7 |
| 45° | 14559.3 | 14656.8 | 14593.1 | 14624.9 | 14523.5 | 14078.0 | 13181.0 | 12705.6 | 12532.5 | 12355.5 |
| 47.5° | 14839.8 | 14943.2 | 15044.6 | 15233.6 | 15406.6 | 15078.4 | 14097.9 | 13564.8 | 13381.8 | 13200.8 |
| 50° | 14807.9 | 14913.4 | 15207.7 | 15609.5 | 16146.5 | 16037.1 | 15064.5 | 14479.8 | 14310.7 | 14103.8 |
| 52.5° | 14553.3 | 14672.7 | 15050.6 | 15718.9 | 16574.1 | 16755.1 | 16049.1 | 15424.5 | 15265.4 | 15018.8 |
| 55° | 13885.0 | 13956.7 | 14523.5 | 15470.3 | 16675.6 | 17256.4 | 17013.7 | 16430.9 | 16271.8 | 15927.7 |
| 57.5° | 12645.9 | 12749.3 | 13574.8 | 14800.0 | 16421.0 | 17596.5 | 17861.0 | 17489.1 | 17335.9 | 16840.7 |
| 60° | 11028.9 | 11194.0 | 12138.7 | 13674.2 | 15772.6 | 17594.5 | 18630.7 | 18529.3 | 18402.0 | 17739.7 |
| 62.5° | 9199.0 | 9390.0 | 10298.9 | 12083.0 | 14638.9 | 17095.3 | 19112.1 | 19400.5 | 19334.8 | 18569.1 |
| 65° | 7064.8 | 7196.1 | 8101.1 | 10024.4 | 12874.6 | 16023.2 | 19167.8 | 19995.2 | 20007.1 | 19199.6 |
| 67.5° | 4703.9 | 5081.8 | 5867.5 | 7522.3 | 10511.7 | 14270.9 | 18678.5 | 20092.6 | 20208.0 | 19416.4 |
| 70° | 2295.3 | 2792.5 | 3562.3 | 4888.9 | 7522.3 | 11583.8 | 17399.6 | 19293.1 | 19549.7 | 18783.9 |
| 72.5° | 952.7 | 1113.8 | 1533.5 | 2412.6 | 4318.1 | 7816.7 | 14829.8 | 17125.1 | 17600.5 | 16643.8 |
| 75° | 642.4 | 696.1 | 877.1 | 1237.1 | 1967.1 | 3854.6 | 10694.7 | 12769.2 | 13535.0 | 12570.3 |
| 77.5° | 495.3 | 529.1 | 638.5 | 865.2 | 1169.5 | 1457.9 | 5724.3 | 7695.4 | 8091.2 | 7490.5 |
| 80° | 389.8 | 415.7 | 477.4 | 630.5 | 829.4 | 779.7 | 1951.2 | 3486.7 | 3715.4 | 3116.7 |
| 82.5° | 338.1 | 348.1 | 342.1 | 427.6 | 550.9 | 455.5 | 640.5 | 1286.9 | 1420.1 | 1030.3 |
| 85° | 244.6 | 272.5 | 284.4 | 264.5 | 292.4 | 230.7 | 262.5 | 455.5 | 501.2 | 447.5 |
| 87.5° | 99.4 | 147.2 | 181.0 | 171.1 | 107.4 | 65.6 | 81.5 | 133.3 | 153.2 | 167.1 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4198.7 | 0° | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 | 4198.7 |
| 4200.7 | 2.5° | 4202.7 | 4216.6 | 4226.6 | 4238.5 | 4246.5 | 4258.4 | 4282.3 | 4296.2 | 4298.2 | 4308.1 |
| 4232.5 | 5° | 4240.5 | 4260.4 | 4282.3 | 4314.1 | 4349.9 | 4379.7 | 4425.5 | 4457.3 | 4469.2 | 4479.2 |
| 4310.1 | 7.5° | 4322.0 | 4349.9 | 4389.7 | 4445.4 | 4497.1 | 4536.9 | 4592.5 | 4630.3 | 4668.1 | 4682.1 |
| 4433.4 | 10° | 4443.4 | 4483.2 | 4540.8 | 4616.4 | 4672.1 | 4723.8 | 4781.5 | 4813.3 | 4851.1 | 4867.0 |
| 4580.6 | 12.5° | 4594.5 | 4636.3 | 4711.9 | 4817.3 | 4869.0 | 4904.8 | 4924.7 | 4916.8 | 4924.7 | 4938.6 |
| 4757.6 | 15° | 4767.6 | 4813.3 | 4898.9 | 5012.2 | 5048.0 | 5016.2 | 4972.4 | 4932.7 | 4926.7 | 4930.7 |
| 4972.4 | 17.5° | 4972.4 | 5006.3 | 5105.7 | 5201.2 | 5175.3 | 5044.0 | 4948.6 | 4884.9 | 4853.1 | 4843.2 |
| 5246.9 | 20° | 5258.9 | 5258.9 | 5340.4 | 5400.1 | 5227.0 | 5004.3 | 4855.1 | 4751.7 | 4686.0 | 4658.2 |
| 5620.8 | 22.5° | 5606.9 | 5575.1 | 5626.8 | 5585.0 | 5217.1 | 4892.9 | 4686.0 | 4507.0 | 4407.6 | 4367.8 |
| 6144.0 | 25° | 6048.5 | 6010.7 | 5996.8 | 5738.2 | 5145.5 | 4715.9 | 4379.7 | 4162.9 | 4075.4 | 4053.5 |
| 6897.8 | 27.5° | 6714.8 | 6619.3 | 6438.3 | 5821.7 | 5014.2 | 4437.4 | 4021.7 | 3820.8 | 3771.1 | 3773.1 |
| 7866.4 | 30° | 7601.9 | 7410.9 | 6967.4 | 5835.7 | 4799.4 | 4043.6 | 3655.7 | 3512.5 | 3488.7 | 3498.6 |
| 8679.9 | 32.5° | 8423.3 | 8242.3 | 7508.4 | 5772.0 | 4469.2 | 3657.7 | 3327.6 | 3232.1 | 3196.3 | 3208.2 |
| 9300.5 | 35° | 9067.7 | 9018.0 | 8009.6 | 5682.5 | 4063.5 | 3295.7 | 3033.2 | 2951.6 | 2882.0 | 2866.1 |
| 9885.2 | 37.5° | 9676.4 | 9656.5 | 8385.5 | 5557.2 | 3661.7 | 3039.2 | 2796.5 | 2689.1 | 2587.7 | 2532.0 |
| 10531.6 | 40° | 10344.7 | 10324.8 | 8632.2 | 5364.3 | 3305.7 | 2816.4 | 2583.7 | 2442.5 | 2317.2 | 2215.7 |
| 11263.6 | 42.5° | 11096.5 | 10979.2 | 8749.5 | 5087.8 | 3003.4 | 2627.4 | 2410.6 | 2219.7 | 2054.6 | 1961.1 |
| 12091.0 | 45° | 11918.0 | 11653.4 | 8747.5 | 4735.8 | 2748.8 | 2454.4 | 2225.7 | 1955.2 | 1802.0 | 1714.5 |
| 12940.3 | 47.5° | 12789.1 | 12297.8 | 8640.1 | 4345.9 | 2502.1 | 2263.5 | 1939.3 | 1732.4 | 1631.0 | 1577.3 |
| 13863.2 | 50° | 13688.1 | 12900.5 | 8457.1 | 3898.4 | 2249.5 | 2046.7 | 1760.2 | 1619.0 | 1541.5 | 1491.7 |
| 14778.1 | 52.5° | 14533.5 | 13447.5 | 8236.4 | 3391.2 | 1993.0 | 1835.8 | 1680.7 | 1571.3 | 1489.7 | 1434.1 |
| 15665.2 | 55° | 15319.1 | 13918.9 | 7924.1 | 2872.1 | 1784.1 | 1694.6 | 1642.9 | 1551.4 | 1457.9 | 1392.3 |
| 16566.2 | 57.5° | 16017.2 | 14225.2 | 7385.1 | 2384.8 | 1634.9 | 1597.1 | 1603.1 | 1517.6 | 1410.2 | 1354.5 |
| 17453.3 | 60° | 16598.0 | 14449.9 | 6587.5 | 1933.3 | 1513.6 | 1501.7 | 1541.5 | 1453.9 | 1328.6 | 1265.0 |
| 18203.1 | 62.5° | 16946.1 | 14445.9 | 5608.9 | 1583.2 | 1410.2 | 1414.2 | 1459.9 | 1374.4 | 1247.1 | 1187.4 |
| 18594.9 | 65° | 16916.3 | 14091.9 | 4534.9 | 1354.5 | 1310.7 | 1314.7 | 1374.4 | 1286.9 | 1179.5 | 1143.7 |
| 18398.0 | 67.5° | 16317.6 | 13228.7 | 3478.7 | 1205.3 | 1201.3 | 1219.2 | 1288.9 | 1227.2 | 1137.7 | 1133.7 |
| 17224.5 | 70° | 14696.6 | 11436.6 | 2506.1 | 1086.0 | 1088.0 | 1113.8 | 1205.3 | 1189.4 | 1115.8 | 1123.8 |
| 14481.7 | 72.5° | 11784.7 | 8719.7 | 1682.7 | 960.7 | 962.7 | 1004.4 | 1125.8 | 1159.6 | 1093.9 | 1199.4 |
| 10275.1 | 75° | 7848.5 | 5437.9 | 1082.0 | 827.4 | 829.4 | 883.1 | 1056.1 | 1101.9 | 1034.3 | 1195.4 |
| 5346.4 | 77.5° | 3771.1 | 2444.5 | 783.7 | 696.1 | 696.1 | 745.9 | 912.9 | 986.5 | 881.1 | 928.9 |
| 1718.5 | 80° | 1302.8 | 918.9 | 616.6 | 560.9 | 549.0 | 582.8 | 769.7 | 855.3 | 759.8 | 700.1 |
| 560.9 | 82.5° | 513.2 | 477.4 | 495.3 | 435.6 | 395.8 | 417.7 | 598.7 | 706.1 | 558.9 | 505.2 |
| 316.2 | 85° | 294.4 | 310.3 | 350.1 | 288.4 | 228.7 | 256.6 | 439.6 | 507.2 | 421.7 | 371.9 |
| 103.4 | 87.5° | 79.6 | 109.4 | 161.1 | 149.2 | 103.4 | 109.4 | 208.8 | 280.4 | 242.7 | 187.0 |
| 0.0 | 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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| <u>180°</u> |
|-------------|
| 4198.7 |
| 4306.1 |
| 4477.2 |
| 4684.0 |
| 4875.0 |
| 4942.6 |
| 4944.6 |
| 4857.1 |
| 4652.2 |
| 4361.8 |
| 4057.5 |
| 3779.1 |
| 3532.4 |
| 3224.1 |
| 2878.0 |
| 2534.0 |
| 2225.7 |
| 1967.1 |
| 1710.5 |
| 1565.3 |
| 1473.8 |
| 1410.2 |
| 1366.4 |
| 1318.7 |
| 1237.1 |
| 1169.5 |
| 1141.7 |
| 1139.7 |
| 1121.8 |
| 1215.3 |
| 1205.3 |
| 851.3 |
| 656.4 |
| 503.2 |
| 379.9 |
| 192.9 |
| 0.0 |

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