

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: P952555

Luminaire Tested: **GALN-SB6B-840-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-840-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33531 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

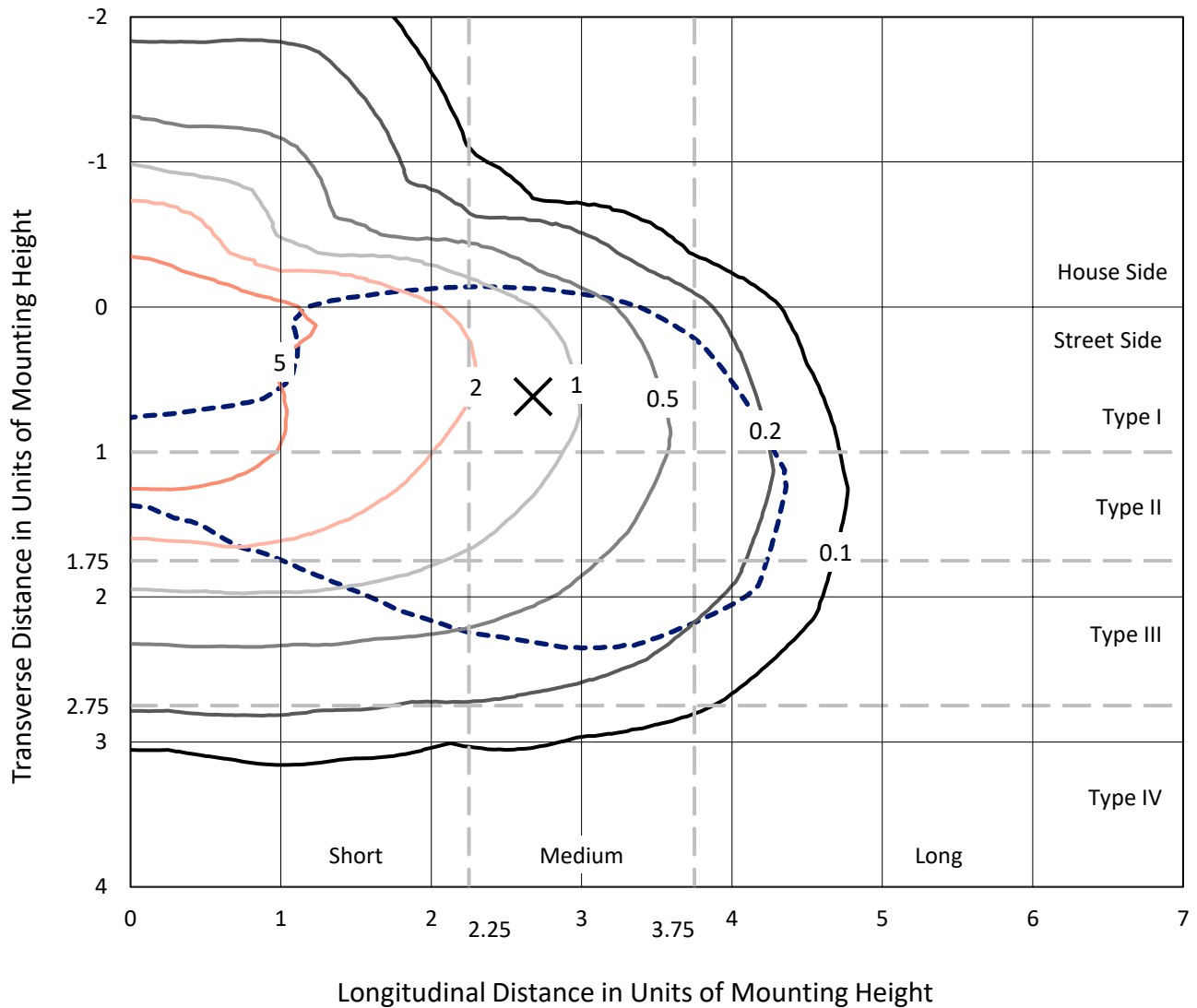
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

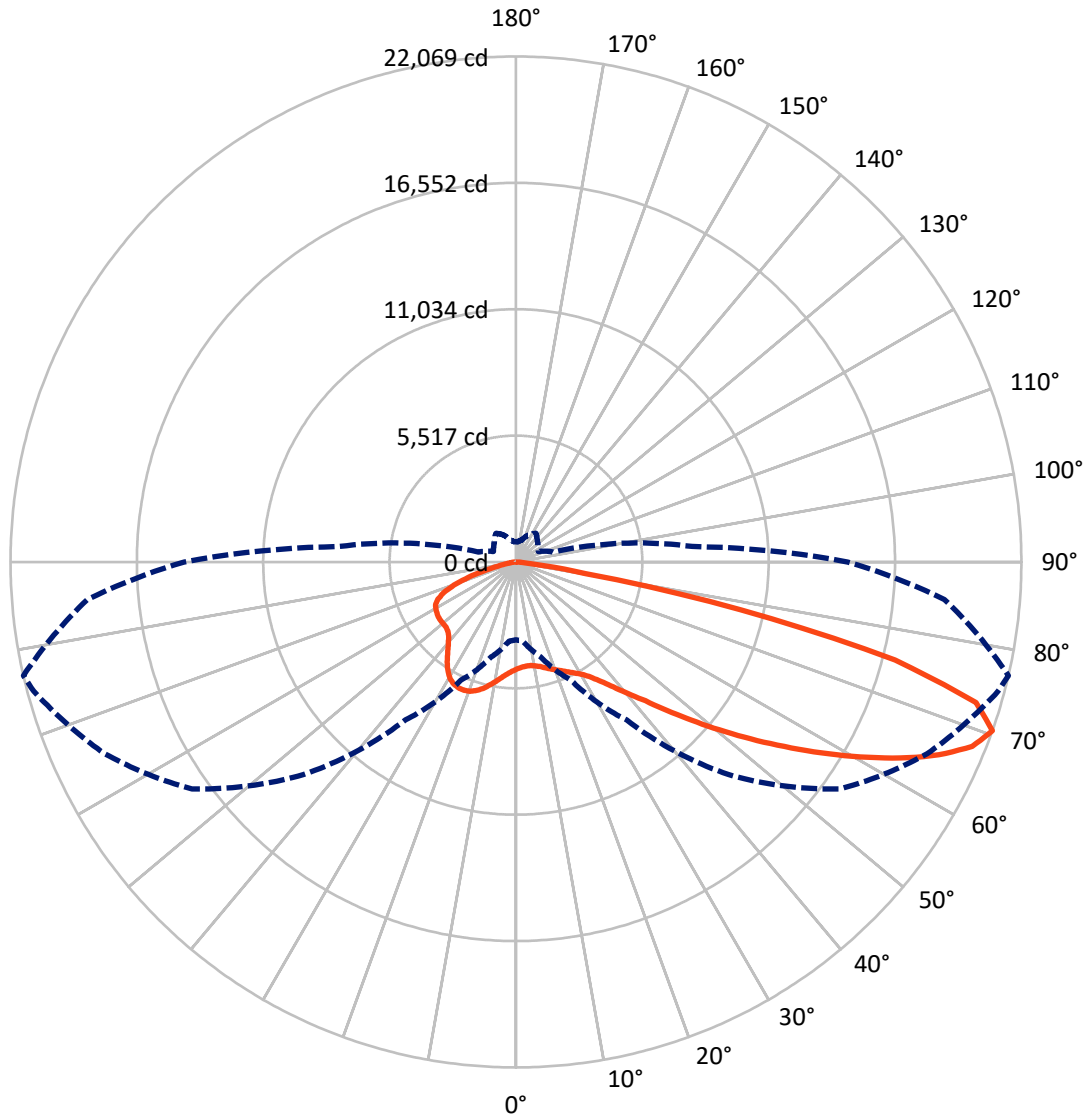
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7342.8 | 0.0 | 7342.8 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 26188.2 | 0.0 | 26188.2 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 33531.0 | 0.0 | 33531.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 446.1 | 1.3 |
| 10°-20° | 1287.6 | 3.8 |
| 20°-30° | 2202.0 | 6.6 |
| 30°-40° | 3541.0 | 10.6 |
| 40°-50° | 5528.5 | 16.5 |
| 50°-60° | 7384.8 | 22.0 |
| 60°-70° | 7871.0 | 23.5 |
| 70°-80° | 4845.4 | 14.5 |
| 80°-90° | 424.6 | 1.3 |
| 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° | 33531.0 | 100.0 |
| 0°-180° | 33531.0 | 100.0 |



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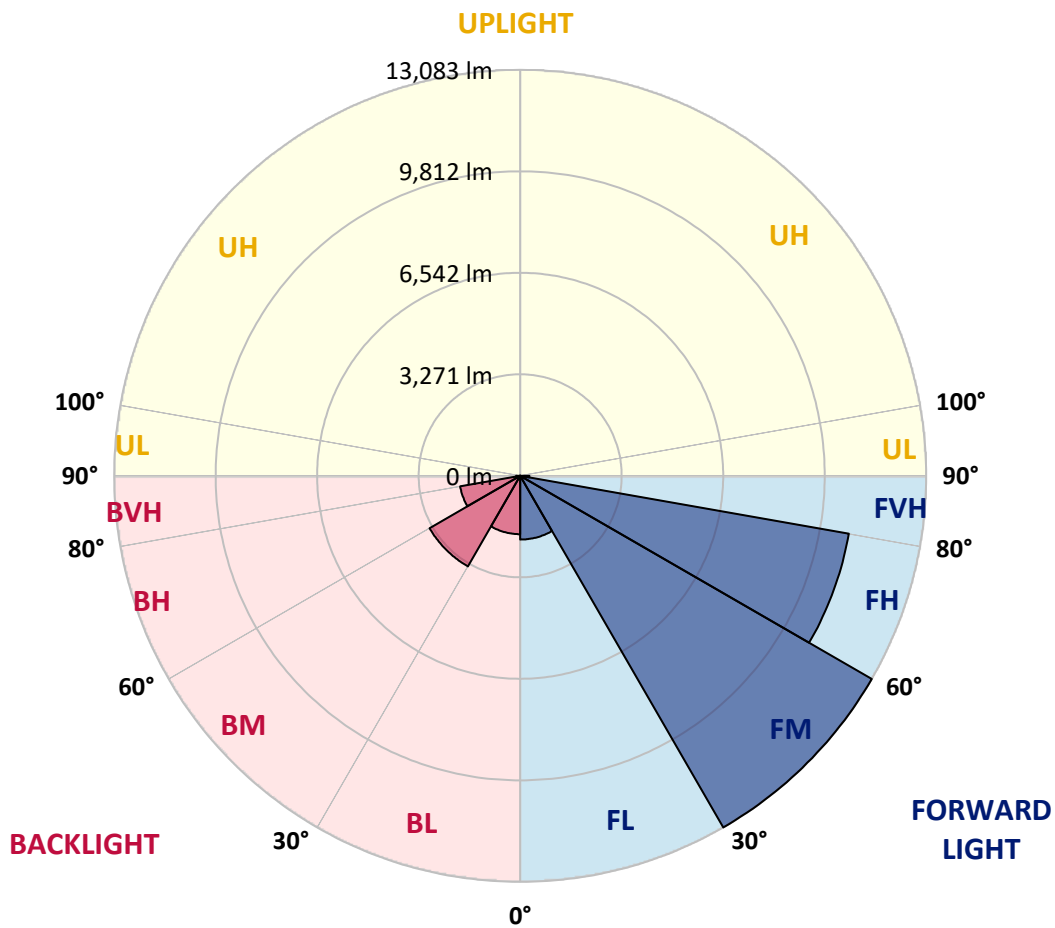
CATALOG NUMBER: GALN-SB6B-840-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2054.3 | 6.1 | | | |
| FM (30°-60°) | 13083.1 | 39.0 | | | |
| FH (60°-80°) | 10754.0 | 32.1 | | | G4/12000 |
| FVH (80°-90°) | 296.9 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1881.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 3371.2 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1962.4 | 5.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 127.7 | 0.4 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 |
| 2.5° | 4312.1 | 4310.4 | 4332.7 | 4339.6 | 4380.8 | 4410.0 | 4464.9 | 4523.3 | 4598.9 | 4607.5 |
| 5° | 4063.1 | 4063.1 | 4088.9 | 4116.3 | 4169.6 | 4228.0 | 4312.1 | 4413.4 | 4543.9 | 4564.5 |
| 7.5° | 3851.9 | 3865.6 | 3887.9 | 3941.2 | 4003.0 | 4087.1 | 4215.9 | 4360.2 | 4531.9 | 4564.5 |
| 10° | 3681.9 | 3697.3 | 3724.8 | 3767.7 | 3860.5 | 3977.2 | 4145.5 | 4331.0 | 4561.1 | 4612.6 |
| 12.5° | 3628.6 | 3644.1 | 3659.5 | 3692.2 | 3778.0 | 3915.4 | 4116.3 | 4344.7 | 4631.5 | 4683.0 |
| 15° | 3752.3 | 3771.2 | 3759.1 | 3750.5 | 3795.2 | 3920.6 | 4130.1 | 4394.5 | 4719.1 | 4792.9 |
| 17.5° | 4037.3 | 4044.2 | 4016.7 | 3936.0 | 3929.1 | 3996.1 | 4195.3 | 4463.2 | 4829.0 | 4909.7 |
| 20° | 4497.6 | 4485.5 | 4428.9 | 4269.2 | 4178.2 | 4164.4 | 4306.9 | 4566.3 | 4942.3 | 5028.2 |
| 22.5° | 5122.7 | 5108.9 | 4995.6 | 4743.1 | 4540.5 | 4406.5 | 4468.4 | 4700.2 | 5069.4 | 5165.6 |
| 25° | 5902.3 | 5883.4 | 5716.8 | 5373.4 | 5059.1 | 4727.7 | 4688.2 | 4877.1 | 5225.7 | 5315.0 |
| 27.5° | 6812.5 | 6797.0 | 6616.7 | 6163.3 | 5710.0 | 5167.3 | 4961.2 | 5084.9 | 5388.8 | 5490.2 |
| 30° | 7791.3 | 7836.0 | 7516.6 | 7028.8 | 6455.3 | 5740.9 | 5328.7 | 5340.8 | 5600.1 | 5691.1 |
| 32.5° | 8941.9 | 9019.2 | 8634.5 | 8016.3 | 7233.2 | 6364.3 | 5792.4 | 5697.9 | 5907.5 | 5983.0 |
| 35° | 10082.2 | 10169.8 | 9850.3 | 9166.9 | 8265.3 | 7099.3 | 6276.7 | 6108.4 | 6316.2 | 6398.6 |
| 37.5° | 11067.9 | 11184.7 | 11019.8 | 10425.6 | 9369.5 | 7985.4 | 6908.6 | 6590.9 | 6819.3 | 6922.4 |
| 40° | 11845.8 | 12024.4 | 12012.4 | 11641.5 | 10671.2 | 9060.4 | 7710.6 | 7186.8 | 7444.4 | 7556.0 |
| 42.5° | 12477.8 | 12632.3 | 12766.3 | 12747.4 | 12029.6 | 10281.4 | 8653.4 | 7961.3 | 8157.1 | 8285.9 |
| 45° | 12914.0 | 13078.8 | 13367.3 | 13678.2 | 13336.4 | 11588.2 | 9733.6 | 8880.1 | 9058.7 | 9252.7 |
| 47.5° | 13303.8 | 13491.0 | 13865.3 | 14358.2 | 14445.8 | 12900.2 | 10916.8 | 9949.9 | 10113.1 | 10314.0 |
| 50° | 13338.1 | 13499.6 | 14080.0 | 14778.9 | 15234.0 | 14160.7 | 12187.6 | 11150.3 | 11303.2 | 11517.8 |
| 52.5° | 12508.7 | 12762.9 | 13776.0 | 14766.9 | 15596.4 | 15215.1 | 13449.8 | 12398.8 | 12570.5 | 12828.1 |
| 55° | 9709.5 | 10082.2 | 12884.8 | 14306.7 | 15467.6 | 15896.9 | 14650.1 | 13726.2 | 13946.1 | 14215.7 |
| 57.5° | 8363.2 | 8526.3 | 10228.1 | 13468.7 | 14880.3 | 16073.8 | 15663.3 | 15067.4 | 15421.2 | 15716.6 |
| 60° | 7516.6 | 7652.2 | 8658.5 | 12165.2 | 14107.5 | 15793.9 | 16446.4 | 16317.6 | 16929.0 | 17281.0 |
| 62.5° | 6609.8 | 6738.6 | 7653.9 | 10157.7 | 13118.3 | 15328.5 | 16941.0 | 17471.6 | 18474.5 | 18859.2 |
| 65° | 5710.0 | 5819.9 | 6697.4 | 8534.9 | 11861.3 | 14863.1 | 17196.9 | 18469.4 | 19905.0 | 20303.4 |
| 67.5° | 4707.1 | 4798.1 | 5627.5 | 7200.6 | 10332.9 | 14226.0 | 17324.0 | 19254.2 | 21150.1 | 21491.8 |
| 70° | 3396.8 | 3467.2 | 4324.1 | 5694.5 | 8414.7 | 13130.4 | 17272.4 | 19810.6 | 21795.8 | 22068.8 |
| 72.5° | 1605.7 | 1669.2 | 2675.5 | 3697.3 | 5943.5 | 10997.5 | 16230.0 | 19369.2 | 21139.8 | 21004.1 |
| 75° | 856.9 | 911.9 | 1537.0 | 2028.1 | 3139.2 | 7538.9 | 13281.5 | 16685.1 | 17751.6 | 17092.1 |
| 77.5° | 580.4 | 623.4 | 951.4 | 1217.6 | 1433.9 | 3578.8 | 8536.6 | 11552.2 | 11114.3 | 10025.5 |
| 80° | 460.2 | 504.9 | 779.6 | 824.3 | 693.8 | 1293.1 | 3527.3 | 5347.6 | 3841.6 | 3072.2 |
| 82.5° | 353.8 | 403.6 | 656.0 | 597.6 | 377.8 | 530.6 | 1026.9 | 1691.5 | 984.0 | 748.7 |
| 85° | 216.4 | 269.6 | 515.2 | 381.2 | 212.9 | 242.1 | 348.6 | 470.5 | 300.5 | 250.7 |
| 87.5° | 109.9 | 154.6 | 261.0 | 139.1 | 96.2 | 56.7 | 92.7 | 92.7 | 79.0 | 68.7 |
| 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° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4677.9 | 0° | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 | 4677.9 |
| 4653.8 | 2.5° | 4695.1 | 4729.4 | 4787.8 | 4842.7 | 4885.7 | 4926.9 | 4968.1 | 4990.4 | 4997.3 | 5024.8 |
| 4679.6 | 5° | 4750.0 | 4813.5 | 4926.9 | 5033.4 | 5100.3 | 5141.5 | 5170.7 | 5187.9 | 5191.3 | 5199.9 |
| 4750.0 | 7.5° | 4851.3 | 4952.6 | 5110.6 | 5217.1 | 5266.9 | 5263.5 | 5251.5 | 5208.5 | 5191.3 | 5175.9 |
| 4853.0 | 10° | 4993.9 | 5127.8 | 5321.9 | 5395.7 | 5364.8 | 5282.4 | 5175.9 | 5050.5 | 4992.1 | 4935.5 |
| 4993.9 | 12.5° | 5170.7 | 5340.8 | 5531.4 | 5527.9 | 5375.1 | 5163.9 | 4916.6 | 4724.2 | 4602.3 | 4514.7 |
| 5167.3 | 15° | 5385.4 | 5581.2 | 5727.1 | 5610.4 | 5275.5 | 4896.0 | 4533.6 | 4282.9 | 4173.0 | 4076.8 |
| 5342.5 | 17.5° | 5606.9 | 5816.4 | 5883.4 | 5584.6 | 5024.8 | 4499.3 | 4088.9 | 3891.4 | 3783.2 | 3731.7 |
| 5531.4 | 20° | 5823.3 | 6031.1 | 5976.1 | 5436.9 | 4643.5 | 4049.4 | 3683.6 | 3575.4 | 3553.1 | 3565.1 |
| 5715.1 | 22.5° | 6051.7 | 6237.2 | 5995.0 | 5151.9 | 4157.5 | 3589.1 | 3388.2 | 3391.6 | 3441.4 | 3477.5 |
| 5907.5 | 25° | 6285.3 | 6410.6 | 5945.2 | 4739.7 | 3635.5 | 3250.8 | 3201.0 | 3256.0 | 3353.9 | 3424.3 |
| 6123.8 | 27.5° | 6510.2 | 6565.2 | 5837.0 | 4229.7 | 3187.3 | 3008.7 | 3017.3 | 3130.6 | 3278.3 | 3376.2 |
| 6386.6 | 30° | 6764.4 | 6702.6 | 5629.3 | 3656.1 | 2876.4 | 2800.9 | 2873.0 | 3005.2 | 3152.9 | 3240.5 |
| 6718.0 | 32.5° | 7051.2 | 6821.1 | 5299.5 | 3125.5 | 2656.6 | 2634.3 | 2752.8 | 2838.7 | 2903.9 | 2929.7 |
| 7157.6 | 35° | 7408.4 | 6987.6 | 4877.1 | 2752.8 | 2459.2 | 2512.4 | 2625.7 | 2582.8 | 2557.0 | 2543.3 |
| 7748.4 | 37.5° | 7872.0 | 7212.6 | 4382.5 | 2510.7 | 2299.4 | 2424.8 | 2471.2 | 2337.2 | 2235.9 | 2186.1 |
| 8464.5 | 40° | 8430.1 | 7542.3 | 3906.8 | 2323.5 | 2198.1 | 2349.2 | 2268.5 | 2107.1 | 1978.3 | 1907.9 |
| 9269.9 | 42.5° | 9050.1 | 7887.5 | 3506.7 | 2182.7 | 2141.5 | 2287.4 | 2119.1 | 1926.8 | 1719.0 | 1696.7 |
| 10229.9 | 45° | 9700.9 | 8243.0 | 3233.6 | 2074.5 | 2114.0 | 2234.2 | 2033.3 | 1722.4 | 1574.7 | 1665.8 |
| 11193.3 | 47.5° | 10351.8 | 8569.2 | 3068.8 | 1993.8 | 2100.2 | 2174.1 | 1957.7 | 1609.1 | 1504.3 | 1636.6 |
| 12225.3 | 50° | 11076.5 | 8861.2 | 2994.9 | 1935.4 | 2084.8 | 2150.0 | 1844.4 | 1579.9 | 1430.5 | 1518.1 |
| 13293.5 | 52.5° | 11796.0 | 9087.9 | 2940.0 | 1877.0 | 2062.5 | 2131.1 | 1789.4 | 1545.6 | 1341.2 | 1346.4 |
| 14368.5 | 55° | 12513.8 | 9235.6 | 2879.9 | 1799.7 | 2012.7 | 2089.9 | 1784.3 | 1507.8 | 1274.2 | 1250.2 |
| 15505.4 | 57.5° | 13279.8 | 9319.7 | 2806.0 | 1713.8 | 1926.8 | 1985.2 | 1779.1 | 1478.6 | 1253.6 | 1214.1 |
| 16668.0 | 60° | 14059.4 | 9443.3 | 2709.9 | 1609.1 | 1811.7 | 1859.8 | 1767.1 | 1468.3 | 1241.6 | 1174.6 |
| 17763.6 | 62.5° | 14758.3 | 9486.3 | 2594.8 | 1509.5 | 1664.0 | 1736.2 | 1741.3 | 1459.7 | 1209.0 | 1093.9 |
| 18673.7 | 65° | 15216.8 | 9300.8 | 2393.9 | 1396.2 | 1504.3 | 1609.1 | 1691.5 | 1430.5 | 1150.6 | 1035.5 |
| 19123.7 | 67.5° | 15198.0 | 8771.9 | 2079.6 | 1250.2 | 1349.8 | 1468.3 | 1619.4 | 1380.7 | 1080.2 | 963.4 |
| 18783.6 | 70° | 14490.4 | 7727.8 | 1681.2 | 1080.2 | 1179.8 | 1317.2 | 1526.7 | 1306.9 | 996.0 | 884.4 |
| 16702.3 | 72.5° | 12428.0 | 6048.3 | 1221.0 | 881.0 | 982.3 | 1160.9 | 1406.5 | 1217.6 | 910.2 | 814.0 |
| 12343.8 | 75° | 8878.4 | 3827.8 | 827.7 | 676.6 | 764.2 | 984.0 | 1257.1 | 1112.8 | 831.2 | 817.4 |
| 6182.2 | 77.5° | 4535.3 | 1828.9 | 547.8 | 494.6 | 532.4 | 776.2 | 1056.1 | 994.3 | 843.2 | 674.9 |
| 1758.5 | 80° | 1475.1 | 674.9 | 345.2 | 336.6 | 353.8 | 516.9 | 817.4 | 815.7 | 638.8 | 458.5 |
| 425.9 | 82.5° | 470.5 | 290.2 | 225.0 | 216.4 | 207.8 | 324.6 | 570.1 | 645.7 | 431.0 | 290.2 |
| 152.8 | 85° | 187.2 | 173.4 | 132.2 | 121.9 | 87.6 | 152.8 | 298.8 | 429.3 | 321.1 | 209.5 |
| 39.5 | 87.5° | 68.7 | 68.7 | 36.1 | 25.8 | 18.9 | 51.5 | 80.7 | 128.8 | 183.7 | 108.2 |
| 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> |
|-------------|
| 4677.9 |
| 5040.2 |
| 5213.7 |
| 5179.3 |
| 4918.3 |
| 4494.1 |
| 4066.5 |
| 3747.1 |
| 3559.9 |
| 3486.1 |
| 3443.2 |
| 3400.2 |
| 3261.1 |
| 2943.4 |
| 2557.0 |
| 2198.1 |
| 1913.1 |
| 1719.0 |
| 1713.8 |
| 1698.4 |
| 1583.3 |
| 1382.4 |
| 1267.4 |
| 1219.3 |
| 1179.8 |
| 1093.9 |
| 1035.5 |
| 968.5 |
| 894.7 |
| 808.8 |
| 771.1 |
| 601.0 |
| 405.3 |
| 288.5 |
| 214.7 |
| 106.5 |
| 0.0 |

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