

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: P940675

Luminaire Tested: **GALN-SB3D-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28060 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

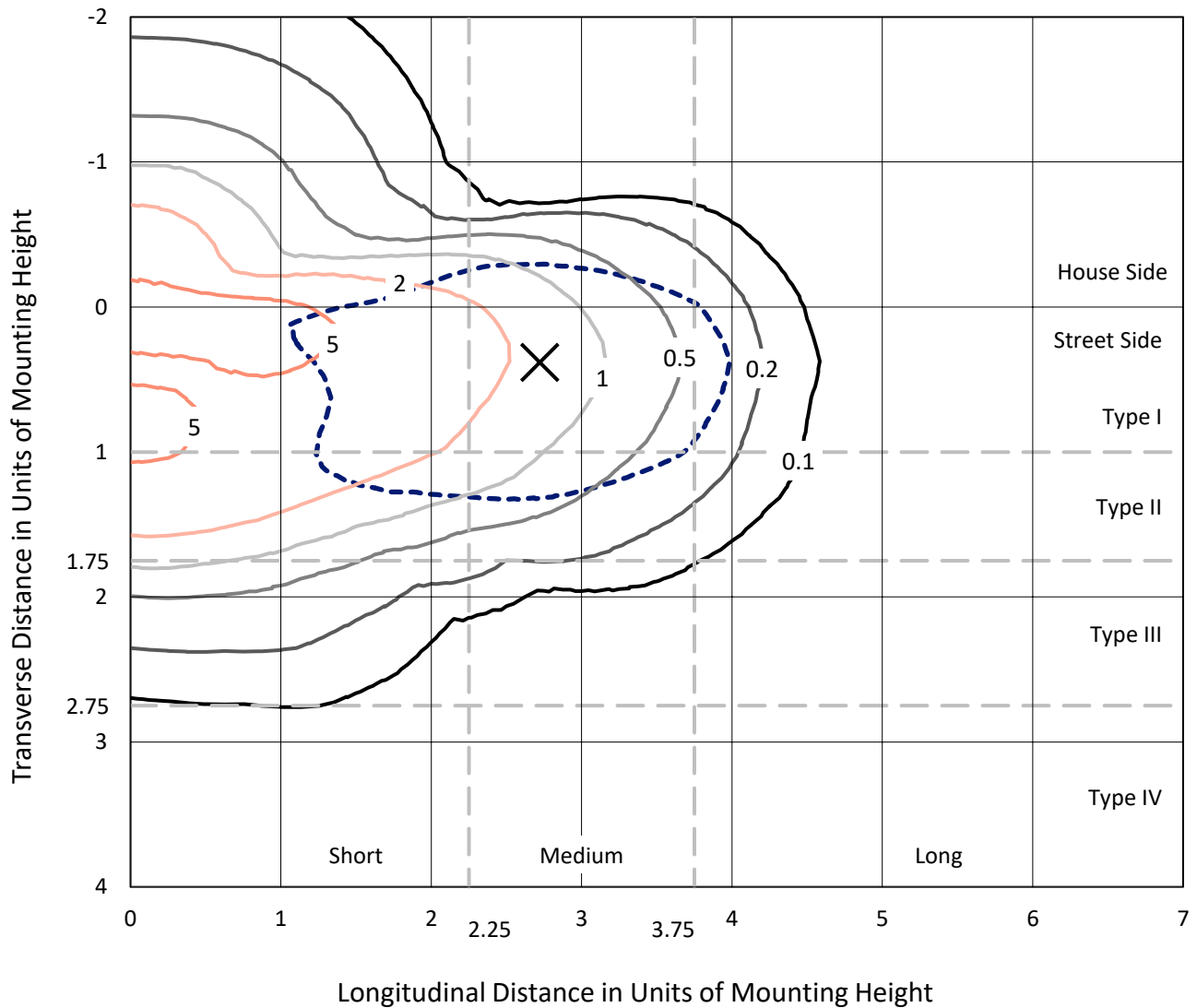
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

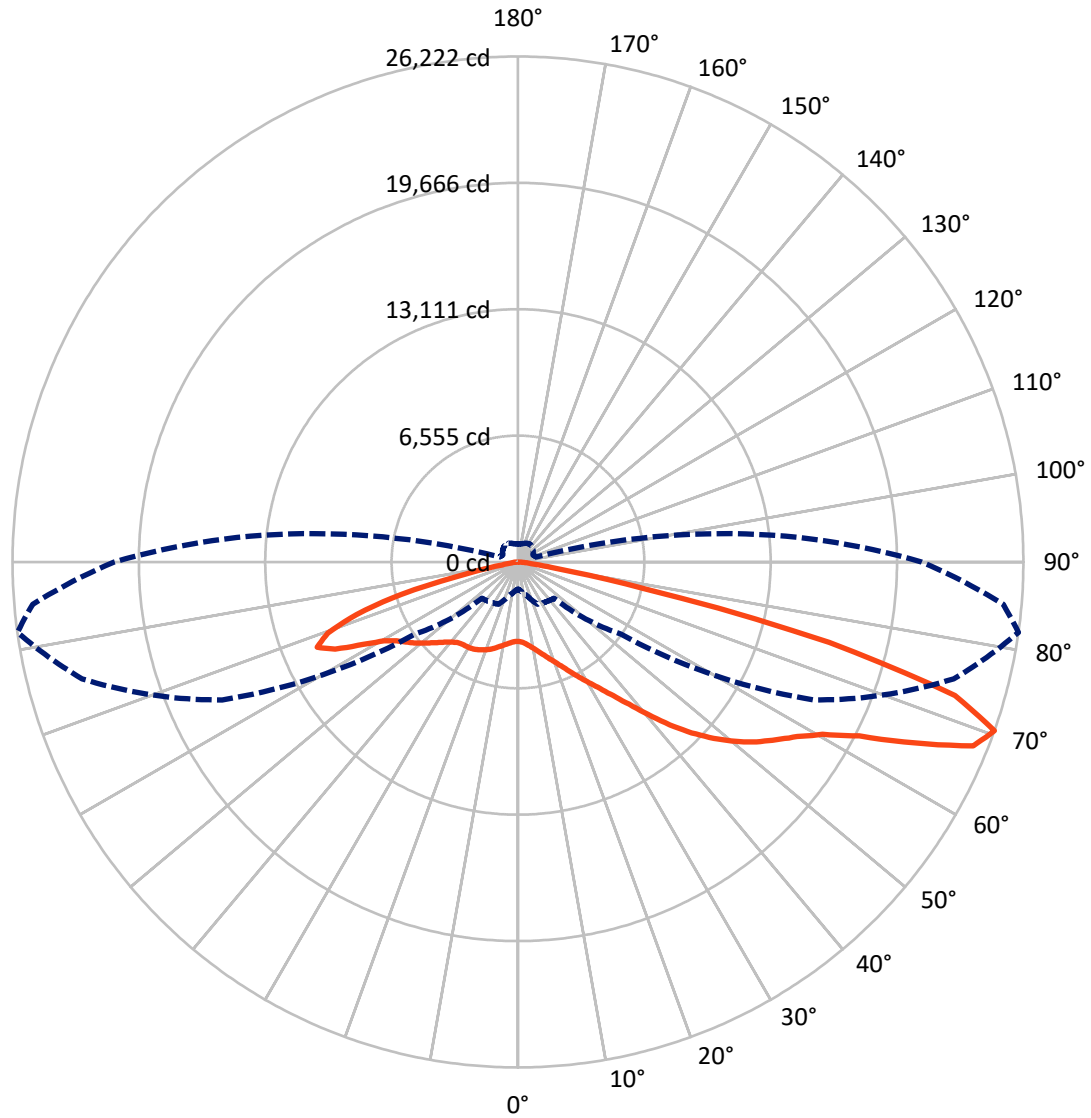
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6917.5 | 0.0 | 6917.5 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 21142.5 | 0.0 | 21142.5 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 28060.0 | 0.0 | 28060.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 388.4 | 1.4 |
| 10°-20° | 1116.0 | 4.0 |
| 20°-30° | 1866.9 | 6.7 |
| 30°-40° | 2916.6 | 10.4 |
| 40°-50° | 4645.0 | 16.6 |
| 50°-60° | 6464.2 | 23.0 |
| 60°-70° | 6761.8 | 24.1 |
| 70°-80° | 3534.1 | 12.6 |
| 80°-90° | 367.0 | 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° | 28060.0 | 100.0 |
| 0°-180° | 28060.0 | 100.0 |

Coefficient of Utilization



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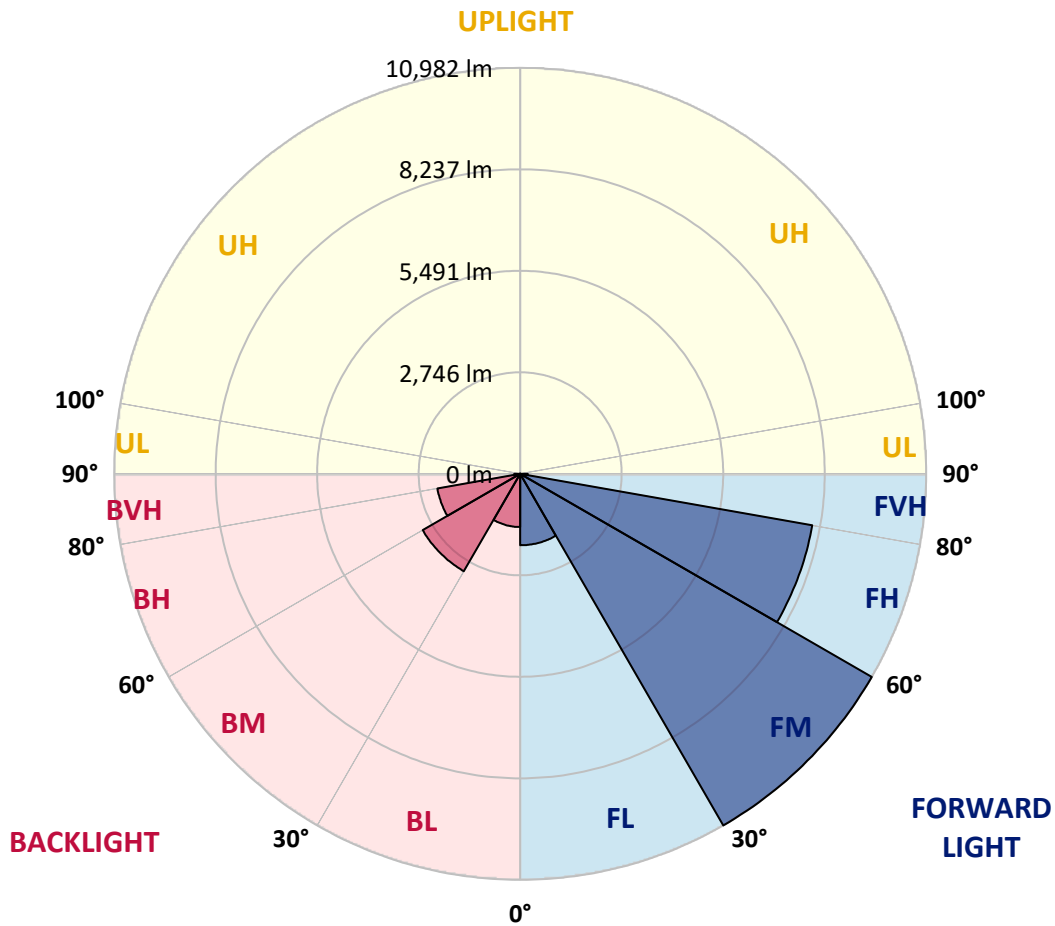
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1932.2 | 6.9 | | | |
| FM (30°-60°) | 10982.4 | 39.1 | | | |
| FH (60°-80°) | 8022.4 | 28.6 | | | G4/12000 |
| FVH (80°-90°) | 205.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 1439.1 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 3043.4 | 10.8 | B3/5000 | | |
| BH (60°-80°) | 2273.4 | 8.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 161.5 | 0.6 | | | 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 II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 |
| 2.5° | 4212.2 | 4236.0 | 4228.6 | 4221.2 | 4221.2 | 4210.7 | 4209.2 | 4194.3 | 4182.4 | 4163.1 |
| 5° | 4265.8 | 4291.1 | 4288.2 | 4294.1 | 4313.5 | 4317.9 | 4322.4 | 4313.5 | 4289.6 | 4265.8 |
| 7.5° | 4218.2 | 4246.5 | 4255.4 | 4291.1 | 4350.7 | 4404.3 | 4444.5 | 4460.9 | 4438.5 | 4404.3 |
| 10° | 4057.4 | 4088.6 | 4119.9 | 4204.8 | 4310.5 | 4437.0 | 4544.3 | 4608.3 | 4603.8 | 4571.1 |
| 12.5° | 3731.3 | 3764.0 | 3831.0 | 3996.3 | 4189.9 | 4413.2 | 4612.7 | 4746.7 | 4792.9 | 4769.1 |
| 15° | 3470.7 | 3499.0 | 3549.6 | 3719.4 | 3971.0 | 4310.5 | 4638.1 | 4898.6 | 5016.2 | 5002.8 |
| 17.5° | 3463.3 | 3475.2 | 3506.5 | 3586.9 | 3780.4 | 4149.7 | 4611.3 | 5047.5 | 5272.3 | 5270.9 |
| 20° | 3594.3 | 3598.8 | 3616.6 | 3633.0 | 3743.2 | 4027.6 | 4542.8 | 5171.1 | 5559.7 | 5559.7 |
| 22.5° | 3776.0 | 3773.0 | 3790.8 | 3776.0 | 3829.6 | 4017.2 | 4499.6 | 5279.8 | 5879.8 | 5903.7 |
| 25° | 4048.4 | 4033.5 | 4029.1 | 3994.8 | 4005.3 | 4113.9 | 4547.2 | 5403.4 | 6259.5 | 6308.6 |
| 27.5° | 4411.7 | 4387.9 | 4371.5 | 4292.6 | 4265.8 | 4313.5 | 4693.1 | 5552.3 | 6682.4 | 6767.2 |
| 30° | 4885.2 | 4842.0 | 4818.2 | 4681.2 | 4584.5 | 4591.9 | 4913.5 | 5750.3 | 7124.6 | 7261.6 |
| 32.5° | 5531.4 | 5464.4 | 5400.4 | 5175.6 | 4998.4 | 4940.3 | 5197.9 | 6024.3 | 7604.0 | 7822.9 |
| 35° | 6255.0 | 6201.4 | 6133.0 | 5786.0 | 5513.6 | 5379.5 | 5582.0 | 6406.9 | 8165.4 | 8512.3 |
| 37.5° | 6951.9 | 6905.7 | 6938.5 | 6470.9 | 6119.6 | 5924.5 | 6085.3 | 6920.6 | 8857.7 | 9369.9 |
| 40° | 7672.5 | 7636.8 | 7641.3 | 7194.6 | 6785.1 | 6566.2 | 6695.8 | 7565.3 | 9651.3 | 10389.8 |
| 42.5° | 8455.7 | 8428.9 | 8339.6 | 7943.5 | 7483.4 | 7279.4 | 7398.6 | 8309.8 | 10503.0 | 11551.2 |
| 45° | 9332.7 | 9316.3 | 9232.9 | 8778.8 | 8251.7 | 8022.4 | 8183.2 | 9131.7 | 11359.1 | 12644.1 |
| 47.5° | 10090.6 | 10104.0 | 10093.5 | 9710.9 | 9164.4 | 8827.9 | 9020.0 | 9989.3 | 12155.7 | 13671.5 |
| 50° | 10455.4 | 10525.3 | 10628.1 | 10509.0 | 10169.5 | 9827.0 | 9864.2 | 10817.2 | 12915.1 | 14634.8 |
| 52.5° | 10264.8 | 10397.3 | 10677.2 | 10867.8 | 10998.8 | 10927.3 | 10827.6 | 11639.1 | 13629.8 | 15504.4 |
| 55° | 9554.5 | 9740.7 | 10205.2 | 10665.3 | 11333.8 | 11853.5 | 11984.5 | 12550.3 | 14326.6 | 16269.7 |
| 57.5° | 8260.7 | 8562.9 | 8979.8 | 9910.4 | 11036.0 | 12301.6 | 13333.5 | 13814.4 | 15065.1 | 17087.1 |
| 60° | 6042.1 | 6447.1 | 6965.3 | 8350.0 | 9993.8 | 12061.9 | 14481.5 | 15756.0 | 16114.8 | 18145.7 |
| 62.5° | 3866.8 | 4116.9 | 4593.4 | 5897.7 | 7787.2 | 10833.5 | 14832.8 | 18183.0 | 17894.1 | 19881.8 |
| 65° | 2647.3 | 2808.1 | 3244.4 | 3977.0 | 5034.1 | 8064.1 | 13891.8 | 20002.4 | 20720.1 | 22633.4 |
| 67.5° | 1923.7 | 2045.8 | 2418.0 | 3059.8 | 3280.1 | 4772.1 | 10779.9 | 19919.1 | 23467.2 | 25468.4 |
| 70° | 1402.6 | 1488.9 | 1801.6 | 2418.0 | 2523.8 | 2654.8 | 6530.5 | 16932.2 | 23407.7 | 26221.8 |
| 72.5° | 1039.3 | 1098.8 | 1308.8 | 1876.1 | 2042.8 | 1792.7 | 3232.5 | 12306.1 | 20114.1 | 23717.4 |
| 75° | 751.9 | 796.6 | 951.4 | 1435.3 | 1634.9 | 1365.4 | 1612.5 | 7191.6 | 14030.3 | 16683.6 |
| 77.5° | 574.7 | 609.0 | 710.2 | 1051.2 | 1308.8 | 1024.4 | 1000.6 | 3308.4 | 6652.6 | 6685.3 |
| 80° | 461.6 | 483.9 | 539.0 | 740.0 | 1003.5 | 766.8 | 652.2 | 1335.6 | 2102.4 | 1779.3 |
| 82.5° | 339.5 | 376.7 | 455.6 | 519.6 | 717.7 | 528.6 | 397.5 | 674.5 | 799.6 | 687.9 |
| 85° | 193.6 | 218.9 | 275.5 | 372.2 | 458.6 | 323.1 | 227.8 | 299.3 | 372.2 | 305.2 |
| 87.5° | 68.5 | 89.3 | 96.8 | 145.9 | 199.5 | 134.0 | 87.8 | 86.4 | 122.1 | 90.8 |
| 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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CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4113.9 | 0° | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 | 4113.9 |
| 4158.6 | 2.5° | 4143.7 | 4136.3 | 4106.5 | 4066.3 | 4024.6 | 3984.4 | 3971.0 | 3942.7 | 3923.4 | 3912.9 |
| 4255.4 | 5° | 4227.1 | 4203.3 | 4133.3 | 4044.0 | 3950.2 | 3848.9 | 3777.4 | 3711.9 | 3664.3 | 3619.6 |
| 4387.9 | 7.5° | 4346.2 | 4304.5 | 4183.9 | 4027.6 | 3860.8 | 3692.6 | 3567.5 | 3472.2 | 3408.2 | 3366.5 |
| 4542.8 | 10° | 4484.7 | 4420.7 | 4236.0 | 4002.3 | 3744.7 | 3503.5 | 3356.1 | 3274.2 | 3234.0 | 3211.6 |
| 4719.9 | 12.5° | 4644.0 | 4553.2 | 4289.6 | 3944.2 | 3567.5 | 3292.1 | 3190.8 | 3167.0 | 3168.5 | 3170.0 |
| 4943.3 | 15° | 4840.6 | 4714.0 | 4332.8 | 3817.6 | 3336.7 | 3129.8 | 3111.9 | 3150.6 | 3190.8 | 3210.2 |
| 5196.4 | 17.5° | 5062.4 | 4883.7 | 4340.3 | 3609.2 | 3110.4 | 3025.5 | 3082.1 | 3165.5 | 3226.5 | 3253.3 |
| 5479.3 | 20° | 5300.6 | 5056.4 | 4286.7 | 3314.4 | 2924.3 | 2940.7 | 3041.9 | 3149.1 | 3216.1 | 3250.4 |
| 5802.4 | 22.5° | 5573.1 | 5241.1 | 4158.6 | 3004.7 | 2772.4 | 2848.3 | 2967.5 | 3071.7 | 3141.7 | 3175.9 |
| 6182.1 | 25° | 5884.3 | 5448.0 | 3957.6 | 2744.1 | 2641.4 | 2744.1 | 2863.2 | 2949.6 | 3006.2 | 3037.4 |
| 6606.4 | 27.5° | 6229.7 | 5663.9 | 3689.6 | 2537.2 | 2526.7 | 2636.9 | 2735.2 | 2802.2 | 2832.0 | 2855.8 |
| 7057.6 | 30° | 6576.7 | 5860.5 | 3365.0 | 2380.8 | 2427.0 | 2531.2 | 2601.2 | 2631.0 | 2639.9 | 2644.4 |
| 7560.8 | 32.5° | 6951.9 | 6030.2 | 3024.0 | 2251.3 | 2331.7 | 2428.5 | 2470.2 | 2483.6 | 2441.9 | 2413.6 |
| 8171.3 | 35° | 7406.0 | 6211.9 | 2690.5 | 2148.5 | 2237.9 | 2321.3 | 2334.7 | 2322.7 | 2273.6 | 2215.5 |
| 8936.6 | 37.5° | 7967.3 | 6438.2 | 2424.0 | 2075.6 | 2150.0 | 2205.1 | 2188.7 | 2185.8 | 2190.2 | 2121.7 |
| 9856.8 | 40° | 8655.2 | 6733.0 | 2228.9 | 2019.0 | 2078.6 | 2090.5 | 2044.3 | 2069.6 | 2092.0 | 1987.7 |
| 10866.3 | 42.5° | 9419.0 | 7088.9 | 2105.4 | 1980.3 | 2019.0 | 1990.7 | 1919.2 | 1947.5 | 1944.6 | 1807.6 |
| 11880.3 | 45° | 10197.8 | 7476.0 | 2062.2 | 1952.0 | 1963.9 | 1907.3 | 1828.4 | 1835.9 | 1773.3 | 1649.7 |
| 12852.5 | 47.5° | 10972.0 | 7891.4 | 2089.0 | 1928.2 | 1895.4 | 1831.4 | 1770.4 | 1737.6 | 1645.3 | 1553.0 |
| 13784.6 | 50° | 11731.4 | 8327.7 | 2187.3 | 1880.5 | 1801.6 | 1764.4 | 1719.7 | 1661.7 | 1563.4 | 1484.5 |
| 14666.1 | 52.5° | 12435.6 | 8766.9 | 2297.4 | 1801.6 | 1684.0 | 1706.3 | 1678.0 | 1611.0 | 1514.3 | 1433.9 |
| 15499.9 | 55° | 13102.7 | 9206.1 | 2340.6 | 1692.9 | 1573.8 | 1655.7 | 1639.3 | 1515.7 | 1399.6 | 1334.1 |
| 16372.4 | 57.5° | 13829.3 | 9734.7 | 2293.0 | 1554.5 | 1484.5 | 1597.6 | 1535.1 | 1398.1 | 1331.1 | 1282.0 |
| 17508.5 | 60° | 14835.8 | 10564.0 | 2190.2 | 1383.2 | 1399.6 | 1511.3 | 1404.1 | 1347.5 | 1274.5 | 1219.4 |
| 19211.8 | 62.5° | 16507.9 | 12111.1 | 2025.0 | 1213.5 | 1299.8 | 1383.2 | 1341.5 | 1285.0 | 1210.5 | 1156.9 |
| 22124.2 | 65° | 18979.5 | 14261.1 | 1713.8 | 1081.0 | 1188.2 | 1258.2 | 1274.5 | 1218.0 | 1140.5 | 1083.9 |
| 24676.2 | 67.5° | 21064.1 | 15610.1 | 1296.9 | 970.8 | 1073.5 | 1156.9 | 1203.1 | 1148.0 | 1066.1 | 1011.0 |
| 25273.3 | 70° | 20949.4 | 14630.3 | 990.1 | 862.1 | 972.3 | 1057.1 | 1116.7 | 1073.5 | 985.7 | 933.6 |
| 22956.5 | 72.5° | 18607.3 | 12239.1 | 801.1 | 751.9 | 869.5 | 952.9 | 1024.4 | 991.6 | 902.3 | 851.7 |
| 16817.6 | 75° | 13670.0 | 8688.0 | 640.2 | 640.2 | 741.5 | 844.2 | 923.1 | 902.3 | 820.4 | 784.7 |
| 7060.6 | 77.5° | 5762.2 | 3644.9 | 501.8 | 531.6 | 616.4 | 725.1 | 823.4 | 830.8 | 759.4 | 804.0 |
| 1867.1 | 80° | 1532.1 | 1005.0 | 382.7 | 418.4 | 483.9 | 598.6 | 716.2 | 713.2 | 635.8 | 594.1 |
| 693.8 | 82.5° | 583.7 | 396.1 | 272.5 | 294.8 | 349.9 | 458.6 | 567.3 | 585.2 | 507.7 | 439.2 |
| 272.5 | 85° | 224.8 | 169.7 | 168.3 | 177.2 | 204.0 | 303.7 | 428.8 | 443.7 | 382.7 | 324.6 |
| 75.9 | 87.5° | 58.1 | 50.6 | 62.5 | 59.6 | 93.8 | 162.3 | 245.7 | 254.6 | 233.8 | 135.5 |
| 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> |
|-------------|
| 4113.9 |
| 3924.9 |
| 3637.5 |
| 3375.4 |
| 3217.6 |
| 3172.9 |
| 3208.7 |
| 3259.3 |
| 3259.3 |
| 3184.8 |
| 3046.4 |
| 2864.7 |
| 2654.8 |
| 2422.5 |
| 2218.5 |
| 2126.2 |
| 1990.7 |
| 1806.1 |
| 1654.2 |
| 1553.0 |
| 1478.5 |
| 1435.3 |
| 1328.1 |
| 1277.5 |
| 1216.5 |
| 1156.9 |
| 1086.9 |
| 1012.5 |
| 938.0 |
| 851.7 |
| 774.2 |
| 729.6 |
| 552.4 |
| 439.2 |
| 335.0 |
| 193.6 |
| 0.0 |

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