

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: P944585

Luminaire Tested: **GALN-SB9C-835-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944585
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-SB9C-835-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62691 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

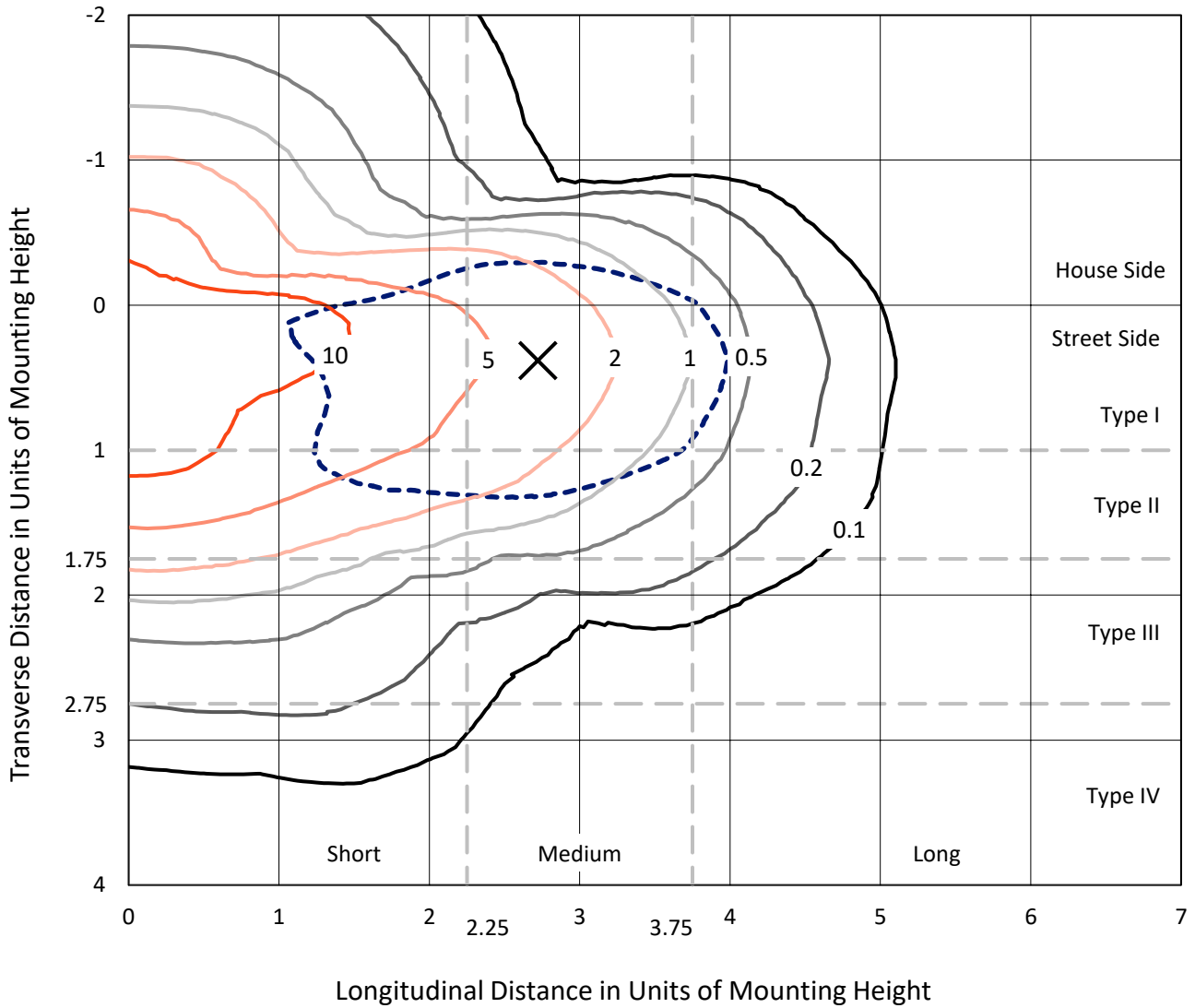
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

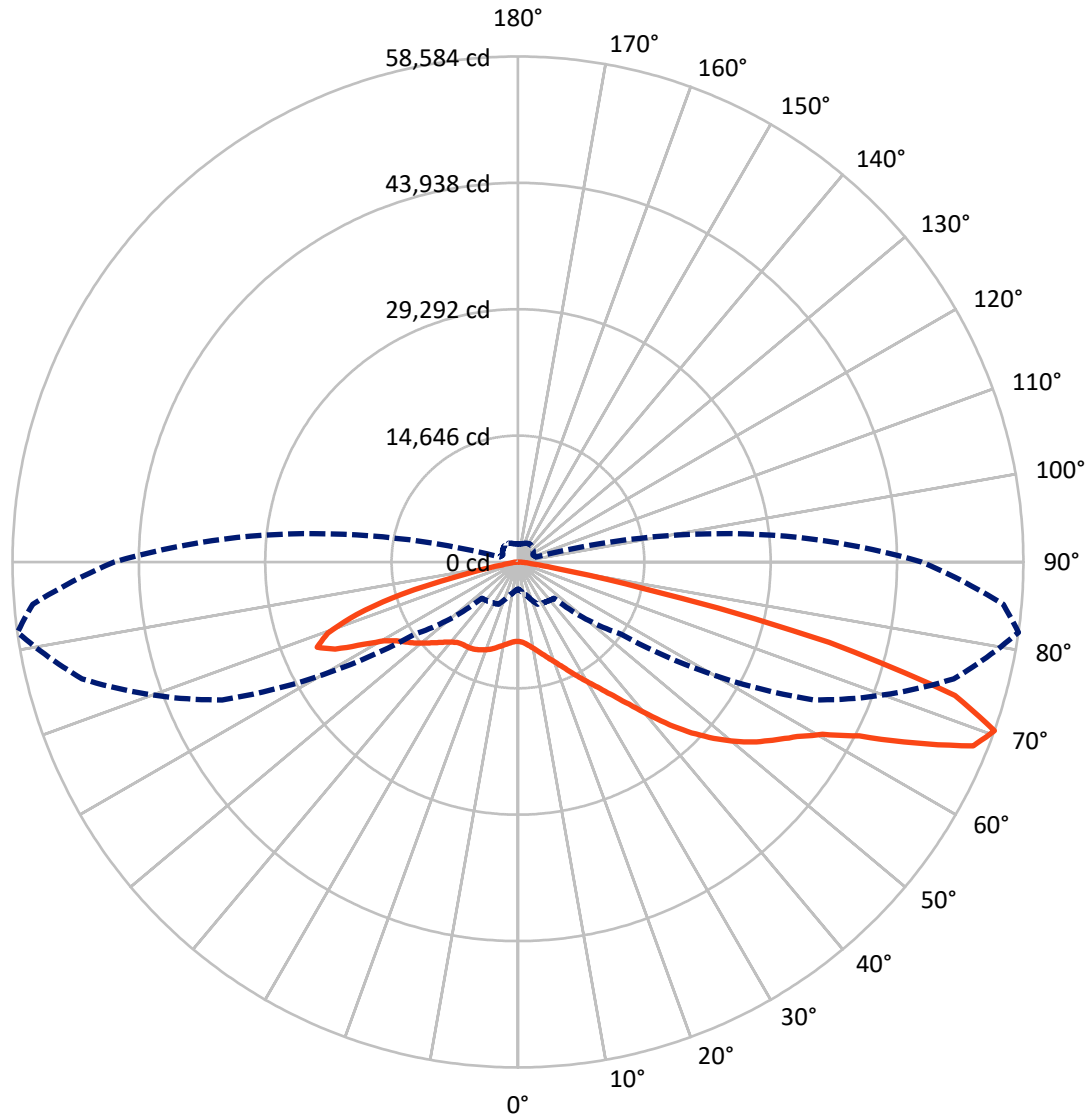
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 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 | 15454.9 | 0.0 | 15454.9 |
| | % Fixture | 24.7 | 0.0 | 24.7 |
| Street Side | Lumens | 47236.1 | 0.0 | 47236.1 |
| | % Fixture | 75.3 | 0.0 | 75.3 |
| Total | Lumens | 62691.0 | 0.0 | 62691.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 867.8 | 1.4 |
| 10°-20° | 2493.3 | 4.0 |
| 20°-30° | 4171.0 | 6.7 |
| 30°-40° | 6516.2 | 10.4 |
| 40°-50° | 10377.9 | 16.6 |
| 50°-60° | 14442.1 | 23.0 |
| 60°-70° | 15107.0 | 24.1 |
| 70°-80° | 7895.8 | 12.6 |
| 80°-90° | 819.9 | 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° | 62691.0 | 100.0 |
| 0°-180° | 62691.0 | 100.0 |

Coefficient of Utilization



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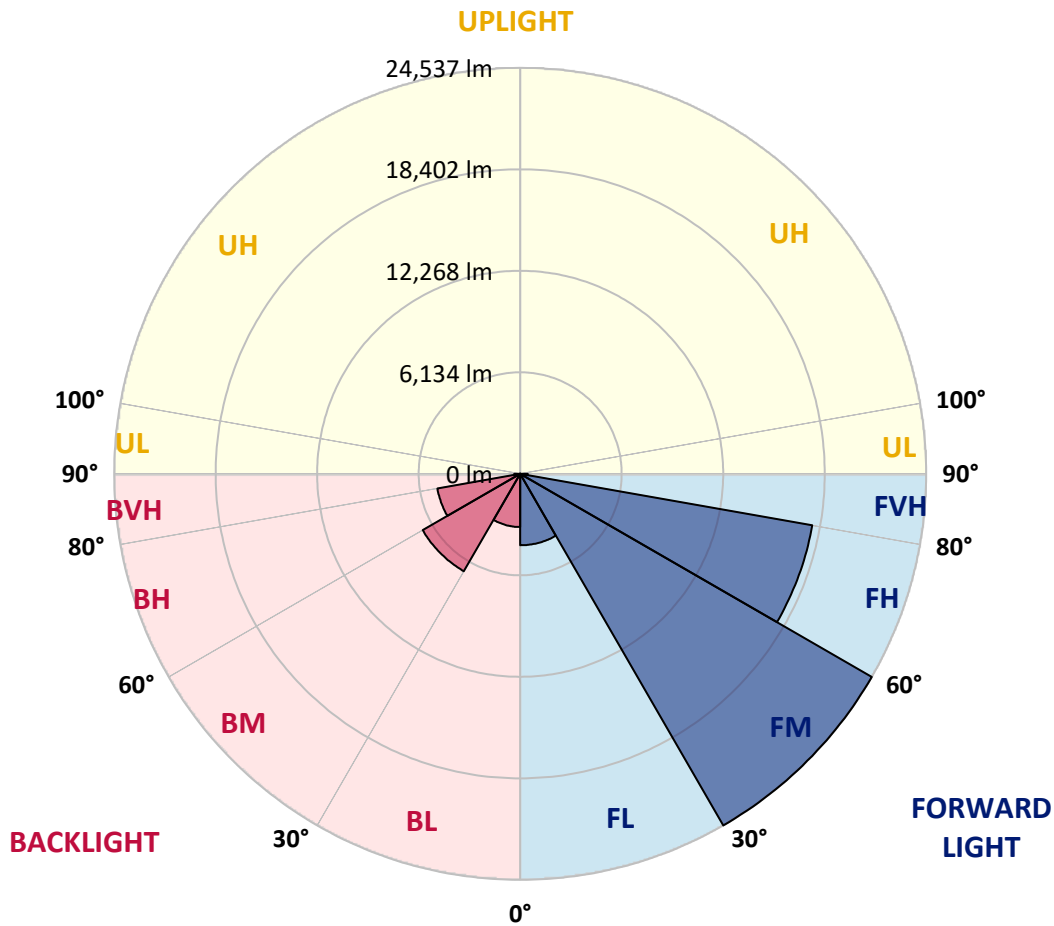
CATALOG NUMBER: GALN-SB9C-835-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 4317.0 | 6.9 | | | |
| FM (30°-60°) | 24536.6 | 39.1 | | | |
| FH (60°-80°) | 17923.6 | 28.6 | | | G5 |
| FVH (80°-90°) | 459.0 | 0.7 | | | G3/500 |
| BL (0°-30°) | 3215.2 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 6799.5 | 10.8 | B4/8500 | | |
| BH (60°-80°) | 5079.2 | 8.1 | B5 | | G5 |
| BVH (80°-90°) | 360.9 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 |
| 2.5° | 9410.8 | 9464.1 | 9447.4 | 9430.8 | 9430.8 | 9407.5 | 9404.2 | 9370.9 | 9344.3 | 9301.1 |
| 5° | 9530.6 | 9587.1 | 9580.5 | 9593.8 | 9637.0 | 9647.0 | 9657.0 | 9637.0 | 9583.8 | 9530.6 |
| 7.5° | 9424.1 | 9487.3 | 9507.3 | 9587.1 | 9720.2 | 9840.0 | 9929.8 | 9966.4 | 9916.5 | 9840.0 |
| 10° | 9064.9 | 9134.7 | 9204.6 | 9394.2 | 9630.4 | 9913.1 | 10152.7 | 10295.7 | 10285.7 | 10212.5 |
| 12.5° | 8336.4 | 8409.5 | 8559.2 | 8928.5 | 9360.9 | 9859.9 | 10305.7 | 10605.1 | 10708.2 | 10655.0 |
| 15° | 7754.2 | 7817.4 | 7930.5 | 8309.7 | 8871.9 | 9630.4 | 10362.2 | 10944.4 | 11207.2 | 11177.2 |
| 17.5° | 7737.6 | 7764.2 | 7834.0 | 8013.7 | 8446.1 | 9271.1 | 10302.4 | 11277.0 | 11779.3 | 11776.0 |
| 20° | 8030.3 | 8040.3 | 8080.2 | 8116.8 | 8363.0 | 8998.3 | 10149.3 | 11553.1 | 12421.4 | 12421.4 |
| 22.5° | 8436.2 | 8429.5 | 8469.4 | 8436.2 | 8555.9 | 8975.1 | 10052.9 | 11796.0 | 13136.6 | 13189.8 |
| 25° | 9044.9 | 9011.7 | 9001.7 | 8925.2 | 8948.4 | 9191.3 | 10159.3 | 12072.1 | 13984.9 | 14094.6 |
| 27.5° | 9856.6 | 9803.4 | 9766.8 | 9590.5 | 9530.6 | 9637.0 | 10485.3 | 12404.7 | 14929.6 | 15119.2 |
| 30° | 10914.4 | 10818.0 | 10764.7 | 10458.7 | 10242.5 | 10259.1 | 10977.6 | 12847.2 | 15917.6 | 16223.6 |
| 32.5° | 12358.2 | 12208.5 | 12065.4 | 11563.1 | 11167.3 | 11037.5 | 11613.0 | 13459.3 | 16988.7 | 17477.7 |
| 35° | 13974.9 | 13855.1 | 13702.1 | 12927.0 | 12318.3 | 12018.9 | 12471.3 | 14314.2 | 18242.9 | 19017.9 |
| 37.5° | 15531.7 | 15428.6 | 15501.8 | 14457.2 | 13672.2 | 13236.4 | 13595.6 | 15461.8 | 19789.7 | 20934.0 |
| 40° | 17141.8 | 17061.9 | 17071.9 | 16073.9 | 15159.1 | 14670.1 | 14959.5 | 16902.2 | 21562.8 | 23212.7 |
| 42.5° | 18891.5 | 18831.7 | 18632.1 | 17747.2 | 16719.3 | 16263.6 | 16529.7 | 18565.5 | 23465.6 | 25807.5 |
| 45° | 20850.9 | 20814.3 | 20628.0 | 19613.4 | 18435.8 | 17923.5 | 18282.8 | 20401.8 | 25378.3 | 28249.1 |
| 47.5° | 22544.1 | 22574.0 | 22550.7 | 21695.8 | 20475.0 | 19723.2 | 20152.3 | 22317.9 | 27158.0 | 30544.5 |
| 50° | 23359.1 | 23515.5 | 23745.0 | 23478.9 | 22720.4 | 21955.3 | 22038.5 | 24167.5 | 28854.6 | 32696.8 |
| 52.5° | 22933.3 | 23229.4 | 23854.8 | 24280.6 | 24573.3 | 24413.6 | 24190.7 | 26003.7 | 30451.3 | 34639.5 |
| 55° | 21346.5 | 21762.4 | 22800.2 | 23828.1 | 25321.8 | 26482.7 | 26775.5 | 28039.6 | 32008.2 | 36349.3 |
| 57.5° | 18455.8 | 19131.0 | 20062.5 | 22141.6 | 24656.5 | 27484.0 | 29789.3 | 30863.8 | 33658.1 | 38175.6 |
| 60° | 13499.2 | 14404.0 | 15561.6 | 18655.3 | 22327.9 | 26948.5 | 32354.1 | 35201.7 | 36003.4 | 40540.8 |
| 62.5° | 8639.1 | 9197.9 | 10262.4 | 13176.5 | 17397.9 | 24204.0 | 33139.2 | 40623.9 | 39978.6 | 44419.6 |
| 65° | 5914.6 | 6273.9 | 7248.6 | 8885.2 | 11247.1 | 18016.6 | 31036.8 | 44689.0 | 46292.4 | 50567.0 |
| 67.5° | 4297.9 | 4570.7 | 5402.3 | 6836.1 | 7328.4 | 10661.6 | 24084.3 | 44502.7 | 52429.9 | 56900.8 |
| 70° | 3133.6 | 3326.6 | 4025.1 | 5402.3 | 5638.5 | 5931.3 | 14590.3 | 37829.6 | 52296.8 | 58584.0 |
| 72.5° | 2321.9 | 2455.0 | 2924.0 | 4191.5 | 4564.0 | 4005.2 | 7222.0 | 27494.0 | 44938.5 | 52988.8 |
| 75° | 1679.9 | 1779.7 | 2125.7 | 3206.8 | 3652.6 | 3050.5 | 3602.7 | 16067.3 | 31346.2 | 37274.1 |
| 77.5° | 1284.1 | 1360.6 | 1586.8 | 2348.6 | 2924.0 | 2288.7 | 2235.4 | 7391.6 | 14863.1 | 14936.3 |
| 80° | 1031.2 | 1081.1 | 1204.2 | 1653.3 | 2242.1 | 1713.2 | 1457.0 | 2983.9 | 4697.1 | 3975.2 |
| 82.5° | 758.5 | 841.6 | 1017.9 | 1161.0 | 1603.4 | 1180.9 | 888.2 | 1506.9 | 1786.4 | 1536.9 |
| 85° | 432.5 | 489.0 | 615.4 | 831.6 | 1024.6 | 721.9 | 509.0 | 668.6 | 831.6 | 681.9 |
| 87.5° | 153.0 | 199.6 | 216.2 | 326.0 | 445.8 | 299.4 | 196.3 | 192.9 | 272.8 | 202.9 |
| 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° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9191.3 | 0° | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 | 9191.3 |
| 9291.1 | 2.5° | 9257.8 | 9241.2 | 9174.7 | 9084.8 | 8991.7 | 8901.9 | 8871.9 | 8808.7 | 8765.5 | 8742.2 |
| 9507.3 | 5° | 9444.1 | 9390.9 | 9234.5 | 9034.9 | 8825.4 | 8599.2 | 8439.5 | 8293.1 | 8186.7 | 8086.9 |
| 9803.4 | 7.5° | 9710.2 | 9617.1 | 9347.6 | 8998.3 | 8625.8 | 8249.9 | 7970.4 | 7757.5 | 7614.5 | 7521.4 |
| 10149.3 | 10° | 10019.6 | 9876.6 | 9464.1 | 8941.8 | 8366.3 | 7827.4 | 7498.1 | 7315.1 | 7225.3 | 7175.4 |
| 10545.2 | 12.5° | 10375.5 | 10172.6 | 9583.8 | 8812.1 | 7970.4 | 7355.0 | 7128.8 | 7075.6 | 7078.9 | 7082.2 |
| 11044.2 | 15° | 10814.6 | 10531.9 | 9680.3 | 8529.3 | 7454.8 | 6992.4 | 6952.5 | 7039.0 | 7128.8 | 7172.1 |
| 11609.7 | 17.5° | 11310.3 | 10911.1 | 9696.9 | 8063.6 | 6949.2 | 6759.6 | 6886.0 | 7072.3 | 7208.7 | 7268.5 |
| 12241.7 | 20° | 11842.6 | 11297.0 | 9577.2 | 7404.9 | 6533.4 | 6570.0 | 6796.2 | 7035.7 | 7185.4 | 7261.9 |
| 12963.6 | 22.5° | 12451.3 | 11709.5 | 9291.1 | 6713.0 | 6194.1 | 6363.7 | 6629.8 | 6862.7 | 7019.0 | 7095.6 |
| 13811.9 | 25° | 13146.6 | 12171.9 | 8842.0 | 6130.8 | 5901.3 | 6130.8 | 6397.0 | 6589.9 | 6716.3 | 6786.2 |
| 14759.9 | 27.5° | 13918.3 | 12654.2 | 8243.2 | 5668.5 | 5645.2 | 5891.3 | 6110.9 | 6260.6 | 6327.1 | 6380.3 |
| 15767.9 | 30° | 14693.4 | 13093.3 | 7518.0 | 5319.2 | 5422.3 | 5655.2 | 5811.5 | 5878.0 | 5898.0 | 5908.0 |
| 16892.3 | 32.5° | 15531.7 | 13472.6 | 6756.2 | 5029.8 | 5209.4 | 5425.6 | 5518.8 | 5548.7 | 5455.6 | 5392.4 |
| 18256.2 | 35° | 16546.3 | 13878.4 | 6011.1 | 4800.2 | 4999.8 | 5186.1 | 5216.0 | 5189.4 | 5079.7 | 4949.9 |
| 19966.0 | 37.5° | 17800.4 | 14384.0 | 5415.6 | 4637.2 | 4803.6 | 4926.6 | 4890.0 | 4883.4 | 4893.4 | 4740.3 |
| 22021.8 | 40° | 19337.3 | 15042.7 | 4979.9 | 4510.8 | 4643.9 | 4670.5 | 4567.4 | 4623.9 | 4673.8 | 4441.0 |
| 24277.2 | 42.5° | 21043.8 | 15837.8 | 4703.8 | 4424.3 | 4510.8 | 4447.6 | 4287.9 | 4351.1 | 4344.5 | 4038.4 |
| 26542.6 | 45° | 22783.6 | 16702.7 | 4607.3 | 4361.1 | 4387.7 | 4261.3 | 4085.0 | 4101.6 | 3961.9 | 3685.8 |
| 28714.9 | 47.5° | 24513.4 | 17630.8 | 4667.2 | 4307.9 | 4234.7 | 4091.7 | 3955.3 | 3882.1 | 3675.8 | 3469.6 |
| 30797.3 | 50° | 26210.0 | 18605.4 | 4886.7 | 4201.4 | 4025.1 | 3942.0 | 3842.2 | 3712.4 | 3492.9 | 3316.6 |
| 32766.6 | 52.5° | 27783.4 | 19586.8 | 5132.9 | 4025.1 | 3762.3 | 3812.2 | 3749.0 | 3599.3 | 3383.1 | 3203.5 |
| 34629.5 | 55° | 29273.7 | 20568.1 | 5229.4 | 3782.3 | 3516.2 | 3699.1 | 3662.5 | 3386.4 | 3127.0 | 2980.6 |
| 36578.9 | 57.5° | 30897.1 | 21749.0 | 5122.9 | 3472.9 | 3316.6 | 3569.4 | 3429.7 | 3123.6 | 2973.9 | 2864.2 |
| 39117.0 | 60° | 33145.8 | 23601.9 | 4893.4 | 3090.4 | 3127.0 | 3376.5 | 3136.9 | 3010.5 | 2847.5 | 2724.5 |
| 42922.6 | 62.5° | 36881.6 | 27058.2 | 4524.1 | 2711.1 | 2904.1 | 3090.4 | 2997.2 | 2870.8 | 2704.5 | 2584.7 |
| 49429.4 | 65° | 42403.7 | 31861.8 | 3828.9 | 2415.1 | 2654.6 | 2810.9 | 2847.5 | 2721.1 | 2548.1 | 2421.7 |
| 55131.1 | 67.5° | 47060.8 | 34875.7 | 2897.4 | 2168.9 | 2398.4 | 2584.7 | 2687.9 | 2564.8 | 2381.8 | 2258.7 |
| 56465.0 | 70° | 46804.7 | 32686.8 | 2212.2 | 1926.1 | 2172.2 | 2361.9 | 2494.9 | 2398.4 | 2202.2 | 2085.8 |
| 51288.9 | 72.5° | 41572.0 | 27344.3 | 1789.7 | 1679.9 | 1942.7 | 2129.0 | 2288.7 | 2215.5 | 2015.9 | 1902.8 |
| 37573.5 | 75° | 30541.1 | 19410.5 | 1430.4 | 1430.4 | 1656.6 | 1886.2 | 2062.5 | 2015.9 | 1832.9 | 1753.1 |
| 15774.5 | 77.5° | 12873.8 | 8143.4 | 1121.1 | 1187.6 | 1377.2 | 1620.0 | 1839.6 | 1856.2 | 1696.5 | 1796.3 |
| 4171.5 | 80° | 3423.0 | 2245.4 | 854.9 | 934.8 | 1081.1 | 1337.3 | 1600.1 | 1593.4 | 1420.4 | 1327.3 |
| 1550.2 | 82.5° | 1304.0 | 884.9 | 608.8 | 658.7 | 781.7 | 1024.6 | 1267.4 | 1307.3 | 1134.4 | 981.3 |
| 608.8 | 85° | 502.3 | 379.2 | 375.9 | 395.9 | 455.7 | 678.6 | 958.0 | 991.3 | 854.9 | 725.2 |
| 169.7 | 87.5° | 129.7 | 113.1 | 139.7 | 133.1 | 209.6 | 362.6 | 548.9 | 568.8 | 522.3 | 302.7 |
| 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> |
|-------------|
| 9191.3 |
| 8768.8 |
| 8126.8 |
| 7541.3 |
| 7188.7 |
| 7088.9 |
| 7168.7 |
| 7281.8 |
| 7281.8 |
| 7115.5 |
| 6806.1 |
| 6400.3 |
| 5931.3 |
| 5412.3 |
| 4956.6 |
| 4750.3 |
| 4447.6 |
| 4035.1 |
| 3695.8 |
| 3469.6 |
| 3303.3 |
| 3206.8 |
| 2967.3 |
| 2854.2 |
| 2717.8 |
| 2584.7 |
| 2428.4 |
| 2262.1 |
| 2095.7 |
| 1902.8 |
| 1729.8 |
| 1630.0 |
| 1234.2 |
| 981.3 |
| 748.5 |
| 432.5 |
| 0.0 |

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