

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: P957184

Luminaire Tested: **GALN-SB9C-840-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957184  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9C-840-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

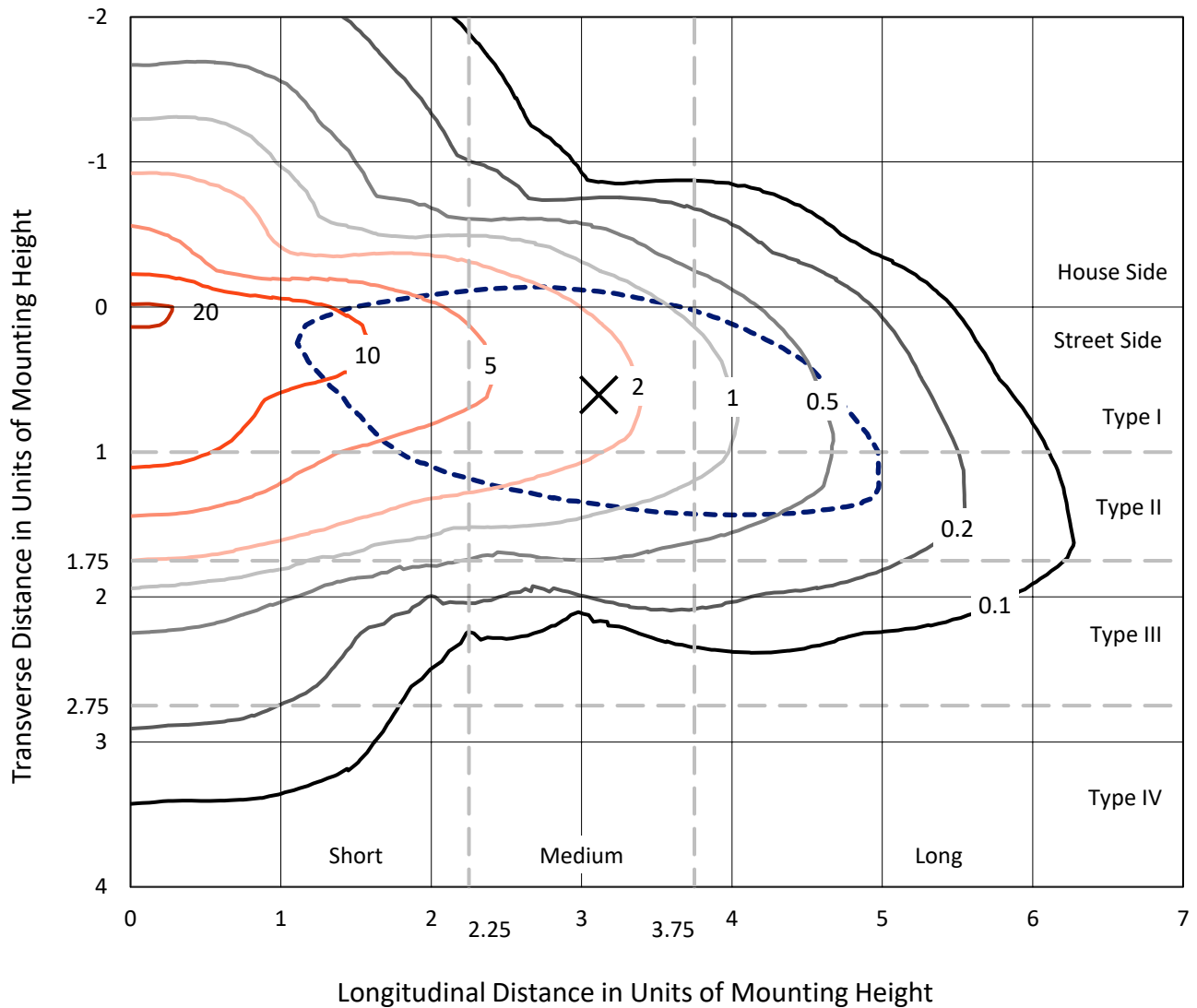
Lumens per Lamp: N/A  
Luminaire Lumens: 64853 lumens  
Efficiency: N/A  
Efficacy: 144.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): 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

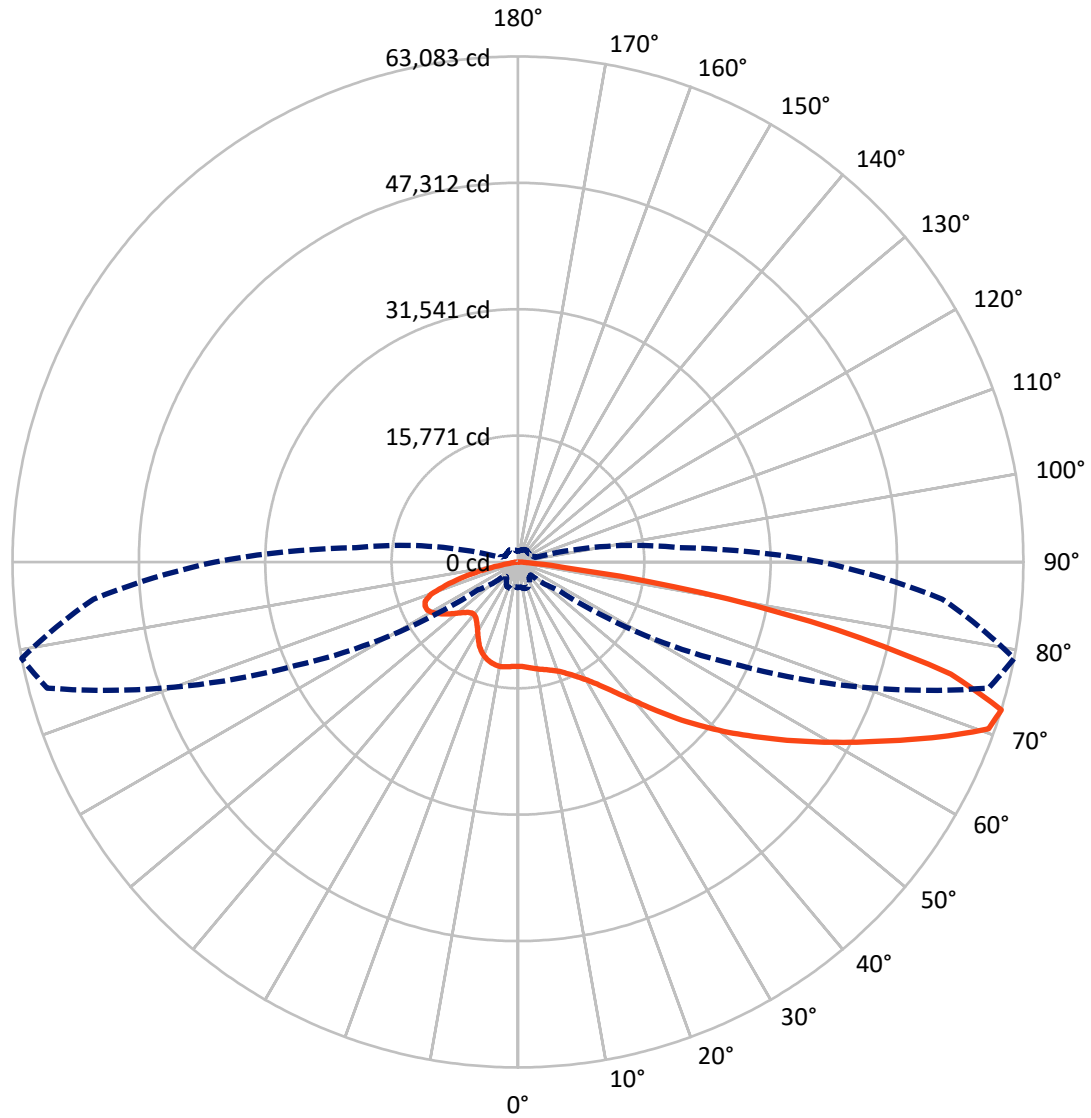
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14271.2  | 0.0    | 14271.2 |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 50581.8  | 0.0    | 50581.8 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 64853.0  | 0.0    | 64853.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1181.7  | 1.8       |
| 10°-20°   | 3089.6  | 4.8       |
| 20°-30°   | 4985.3  | 7.7       |
| 30°-40°   | 7482.3  | 11.5      |
| 40°-50°   | 10614.0 | 16.4      |
| 50°-60°   | 13404.1 | 20.7      |
| 60°-70°   | 13613.7 | 21.0      |
| 70°-80°   | 9278.4  | 14.3      |
| 80°-90°   | 1203.8  | 1.9       |
| 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°    | 64853.0 | 100.0     |
| 0°-180°   | 64853.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P957184

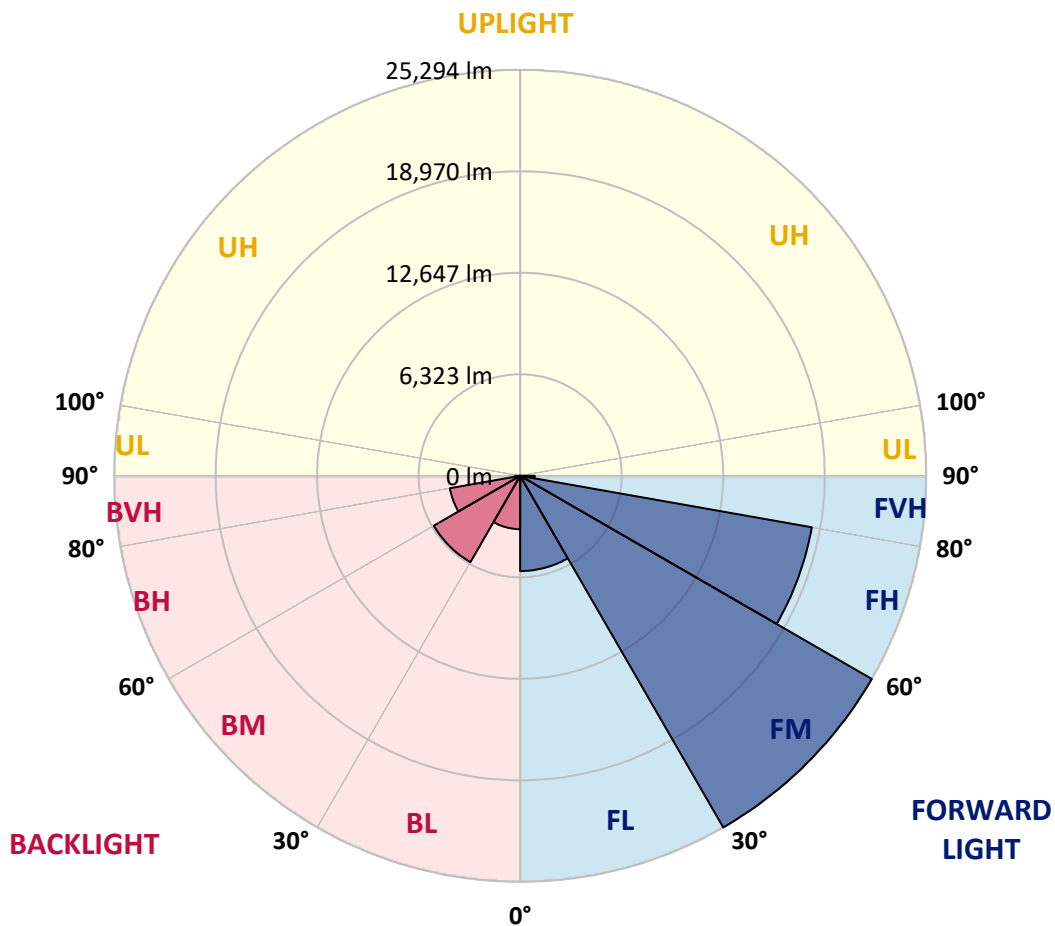
CATALOG NUMBER: GALN-SB9C-840-U-SL2

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5932.5  | 9.1       |                         |      |         |
| FM (30°-60°)   | 25294.0 | 39.0      |                         |      |         |
| FH (60°-80°)   | 18448.5 | 28.4      |                         |      | G5      |
| FVH (80°-90°)  | 906.8   | 1.4       |                         |      | G5      |
| BL (0°-30°)    | 3324.2  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 6206.5  | 9.6       | B4/8500                 |      |         |
| BH (60°-80°)   | 4443.6  | 6.9       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 297.0   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



REPORT NUMBER: P957184  
 CATALOG NUMBER: GALN-SB9C-840-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 |
| 2.5°  | 13025.5 | 12963.7 | 13001.5 | 12987.7 | 13004.9 | 13025.5 | 13032.3 | 13042.6 | 13076.9 | 13073.5 |
| 5°    | 12998.0 | 12936.3 | 12987.7 | 12970.6 | 13015.2 | 13063.2 | 13104.4 | 13142.1 | 13197.0 | 13221.0 |
| 7.5°  | 12939.7 | 12898.6 | 12950.0 | 13001.5 | 13083.8 | 13155.8 | 13214.2 | 13299.9 | 13378.8 | 13392.5 |
| 10°   | 12600.1 | 12569.2 | 12689.3 | 12823.1 | 13049.5 | 13245.0 | 13372.0 | 13471.4 | 13557.2 | 13570.9 |
| 12.5° | 12246.8 | 12209.0 | 12342.8 | 12524.6 | 12891.7 | 13245.0 | 13512.6 | 13643.0 | 13718.4 | 13763.0 |
| 15°   | 12188.5 | 12157.6 | 12233.0 | 12390.8 | 12696.2 | 13152.4 | 13608.7 | 13848.8 | 13914.0 | 13965.4 |
| 17.5° | 12469.7 | 12411.4 | 12442.3 | 12497.2 | 12675.6 | 13066.6 | 13684.1 | 14082.1 | 14181.6 | 14236.4 |
| 20°   | 13121.5 | 13039.2 | 12991.2 | 12881.4 | 12850.5 | 13080.4 | 13677.3 | 14363.4 | 14493.7 | 14562.3 |
| 22.5° | 13989.4 | 13934.6 | 13831.6 | 13553.8 | 13251.9 | 13248.5 | 13807.6 | 14723.6 | 14967.1 | 15032.3 |
| 25°   | 15039.2 | 14956.8 | 14826.5 | 14449.1 | 13869.4 | 13581.2 | 14027.2 | 15183.2 | 15591.5 | 15608.6 |
| 27.5° | 16246.7 | 16123.2 | 15944.8 | 15447.4 | 14665.2 | 14102.7 | 14363.4 | 15711.5 | 16308.4 | 16301.6 |
| 30°   | 17519.4 | 17395.9 | 17207.2 | 16603.5 | 15618.9 | 14805.9 | 14829.9 | 16281.0 | 17159.2 | 17121.5 |
| 32.5° | 18449.1 | 18356.4 | 18318.7 | 17852.2 | 16716.7 | 15636.1 | 15365.1 | 16912.2 | 18208.9 | 18174.6 |
| 35°   | 19162.6 | 19042.5 | 19087.1 | 18850.4 | 17913.9 | 16565.7 | 16020.3 | 17663.5 | 19485.1 | 19481.6 |
| 37.5° | 19869.3 | 19762.9 | 19800.7 | 19642.9 | 19021.9 | 17745.8 | 16819.6 | 18582.8 | 21066.5 | 21142.0 |
| 40°   | 20514.2 | 20401.0 | 20551.9 | 20404.4 | 19883.0 | 19001.4 | 17728.7 | 19622.3 | 22898.4 | 23042.4 |
| 42.5° | 20901.8 | 20812.6 | 21063.1 | 21066.5 | 20630.8 | 20061.4 | 18726.9 | 20768.0 | 25018.4 | 25340.9 |
| 45°   | 21035.6 | 21004.8 | 21382.1 | 21461.0 | 21292.9 | 20675.4 | 19625.7 | 22016.7 | 27303.1 | 27879.4 |
| 47.5° | 20891.5 | 20833.2 | 21354.7 | 21646.2 | 21780.0 | 20963.6 | 20370.1 | 23368.3 | 29635.8 | 30479.7 |
| 50°   | 20164.3 | 20051.1 | 20826.4 | 21440.4 | 21917.3 | 21152.3 | 21121.4 | 24929.2 | 32287.6 | 33210.4 |
| 52.5° | 18857.3 | 18771.5 | 19653.1 | 20720.0 | 21615.4 | 21244.9 | 21965.3 | 26634.1 | 34805.5 | 35999.3 |
| 55°   | 17186.6 | 17073.4 | 18044.3 | 19437.0 | 20864.1 | 21214.0 | 22809.2 | 28541.5 | 37776.3 | 38987.3 |
| 57.5° | 14538.3 | 14311.9 | 15540.0 | 17186.6 | 19639.4 | 21176.3 | 23687.4 | 30438.5 | 40795.1 | 42246.2 |
| 60°   | 10675.6 | 10339.4 | 11845.4 | 13797.3 | 17245.0 | 20809.2 | 24774.8 | 32565.4 | 44417.7 | 45724.7 |
| 62.5° | 6216.0  | 6020.5  | 7005.0  | 8826.6  | 12998.0 | 18648.0 | 25385.5 | 35038.8 | 47978.5 | 49350.7 |
| 65°   | 4826.7  | 4771.8  | 4857.5  | 4998.2  | 7234.9  | 13962.0 | 23502.1 | 37450.4 | 52506.7 | 53467.3 |
| 67.5° | 4415.0  | 4373.8  | 4411.6  | 4147.4  | 3670.6  | 7776.9  | 18593.1 | 38061.0 | 57357.4 | 57940.6 |
| 70°   | 3924.5  | 3876.4  | 3999.9  | 3773.5  | 2888.5  | 3536.8  | 12013.5 | 35845.0 | 61216.7 | 62311.0 |
| 72.5° | 3197.2  | 3142.3  | 3430.5  | 3327.6  | 2432.2  | 2271.0  | 6034.2  | 30579.2 | 60811.9 | 63082.9 |
| 75°   | 2456.2  | 2425.3  | 2768.4  | 2854.1  | 1982.8  | 1787.3  | 2895.3  | 22730.3 | 53515.3 | 55803.4 |
| 77.5° | 1907.3  | 1883.3  | 2058.3  | 2370.5  | 1598.6  | 1385.9  | 1780.4  | 14418.3 | 40328.6 | 40729.9 |
| 80°   | 1430.5  | 1361.9  | 1523.1  | 1835.3  | 1245.3  | 1012.0  | 1207.5  | 8408.1  | 25491.8 | 23107.6 |
| 82.5° | 895.4   | 861.0   | 994.8   | 1224.7  | 878.2   | 696.4   | 785.6   | 4644.9  | 10215.9 | 6017.0  |
| 85°   | 511.1   | 497.4   | 542.0   | 699.8   | 476.8   | 401.4   | 449.4   | 2051.4  | 1866.2  | 1283.0  |
| 87.5° | 205.8   | 199.0   | 247.0   | 312.2   | 175.0   | 147.5   | 157.8   | 494.0   | 411.7   | 380.8   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P957184  
 CATALOG NUMBER: GALN-SB9C-840-U-SL2

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13018.6 | 0°    | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 | 13018.6 |
| 13070.1 | 2.5°  | 13056.4 | 13056.4 | 13008.3 | 12932.9 | 12847.1 | 12792.2 | 12703.0 | 12679.0 | 12586.4 | 12558.9 |
| 13186.7 | 5°    | 13214.2 | 13186.7 | 13039.2 | 12826.5 | 12534.9 | 12267.4 | 11972.3 | 11787.1 | 11526.4 | 11433.7 |
| 13416.6 | 7.5°  | 13413.1 | 13337.7 | 13083.8 | 12617.3 | 12006.6 | 11406.3 | 10782.0 | 10308.6 | 9855.7  | 9694.5  |
| 13605.2 | 10°   | 13594.9 | 13488.6 | 13056.4 | 12239.9 | 11183.3 | 10143.9 | 9149.1  | 8452.7  | 7924.4  | 7708.3  |
| 13814.5 | 12.5° | 13776.8 | 13581.2 | 12874.5 | 11612.1 | 10013.5 | 8603.6  | 7543.6  | 7001.6  | 6675.7  | 6415.0  |
| 13986.0 | 15°   | 13948.3 | 13673.8 | 12593.2 | 10771.7 | 8730.5  | 7300.0  | 6517.9  | 6085.6  | 5824.9  | 5653.4  |
| 14236.4 | 17.5° | 14147.2 | 13752.7 | 12171.3 | 9704.8  | 7509.3  | 6397.8  | 5759.8  | 5499.0  | 5447.6  | 5427.0  |
| 14579.5 | 20°   | 14425.1 | 13824.8 | 11615.6 | 8511.0  | 6610.5  | 5677.4  | 5348.1  | 5324.1  | 5320.7  | 5310.4  |
| 14991.1 | 22.5° | 14723.6 | 13910.5 | 10881.4 | 7427.0  | 5845.5  | 5228.0  | 5169.7  | 5121.7  | 5090.8  | 5087.4  |
| 15488.6 | 25°   | 15076.9 | 13938.0 | 9962.1  | 6538.5  | 5193.7  | 5015.3  | 4946.7  | 4874.7  | 4854.1  | 4854.1  |
| 16054.6 | 27.5° | 15420.0 | 13845.4 | 8891.8  | 5766.6  | 4826.7  | 4819.8  | 4730.6  | 4706.6  | 4703.2  | 4713.5  |
| 16699.5 | 30°   | 15763.0 | 13670.4 | 7828.3  | 5053.1  | 4614.0  | 4614.0  | 4583.1  | 4600.3  | 4614.0  | 4648.3  |
| 17584.6 | 32.5° | 16226.1 | 13485.2 | 6939.8  | 4524.8  | 4428.7  | 4394.4  | 4425.3  | 4459.6  | 4473.3  | 4517.9  |
| 18747.5 | 35°   | 16905.3 | 13354.8 | 6233.2  | 4236.6  | 4236.6  | 4192.0  | 4209.2  | 4202.3  | 4171.4  | 4150.9  |
| 20154.0 | 37.5° | 17804.1 | 13347.9 | 5650.0  | 4102.8  | 4075.4  | 4068.5  | 4072.0  | 4027.4  | 3907.3  | 3763.2  |
| 21855.5 | 40°   | 18884.7 | 13533.2 | 5200.6  | 4010.2  | 3989.6  | 4030.8  | 4010.2  | 3890.1  | 3560.8  | 3310.4  |
| 23948.1 | 42.5° | 20335.8 | 14061.5 | 4912.4  | 3897.0  | 3958.8  | 4010.2  | 3927.9  | 3512.8  | 3289.8  | 3121.7  |
| 26332.3 | 45°   | 22044.2 | 14919.1 | 4764.9  | 3776.9  | 3900.4  | 3962.2  | 3564.3  | 3382.4  | 3204.1  | 3001.7  |
| 28932.6 | 47.5° | 23979.0 | 15999.7 | 4730.6  | 3663.7  | 3770.1  | 3807.8  | 3409.9  | 3327.6  | 3125.2  | 2905.6  |
| 31546.6 | 50°   | 26085.3 | 17279.3 | 4823.2  | 3530.0  | 3581.4  | 3451.1  | 3358.4  | 3283.0  | 3073.7  | 2857.6  |
| 34225.8 | 52.5° | 28263.6 | 18689.2 | 5008.5  | 3348.1  | 3392.7  | 3248.7  | 3337.8  | 3272.7  | 3042.8  | 2751.2  |
| 36994.2 | 55°   | 30404.2 | 20109.4 | 5186.9  | 3135.4  | 3200.6  | 3066.8  | 3279.5  | 3231.5  | 2902.2  | 2572.9  |
| 39947.8 | 57.5° | 32579.1 | 21522.8 | 5361.8  | 2946.8  | 3015.4  | 2891.9  | 3186.9  | 3121.7  | 2744.4  | 2408.2  |
| 43172.4 | 60°   | 34839.8 | 22894.9 | 5444.2  | 2765.0  | 2813.0  | 2730.7  | 3046.3  | 2933.0  | 2566.0  | 2240.1  |
| 46342.2 | 62.5° | 36956.4 | 24037.3 | 5310.4  | 2583.1  | 2614.0  | 2579.7  | 2861.0  | 2710.1  | 2387.6  | 2051.4  |
| 49645.7 | 65°   | 39079.9 | 24716.5 | 4898.7  | 2404.8  | 2411.6  | 2394.5  | 2600.3  | 2469.9  | 2178.3  | 1886.8  |
| 52537.6 | 67.5° | 41004.4 | 25097.3 | 4243.5  | 2212.7  | 2195.5  | 2188.6  | 2356.7  | 2209.2  | 1975.9  | 1722.1  |
| 54736.5 | 70°   | 41412.6 | 24129.9 | 3241.8  | 1986.2  | 1986.2  | 1969.1  | 2089.2  | 1938.2  | 1753.0  | 1547.1  |
| 53162.0 | 72.5° | 37824.3 | 20298.1 | 2301.8  | 1729.0  | 1756.4  | 1722.1  | 1821.6  | 1694.7  | 1526.6  | 1389.3  |
| 45817.3 | 75°   | 30500.3 | 14884.8 | 1674.1  | 1464.8  | 1512.8  | 1454.5  | 1547.1  | 1457.9  | 1313.9  | 1310.4  |
| 31574.0 | 77.5° | 20956.7 | 9203.9  | 1214.4  | 1207.5  | 1241.8  | 1166.4  | 1272.7  | 1224.7  | 1094.3  | 1036.0  |
| 13742.5 | 80°   | 8943.2  | 3670.6  | 885.1   | 933.1   | 933.1   | 864.5   | 988.0   | 1001.7  | 888.5   | 861.0   |
| 2651.8  | 82.5° | 1780.4  | 1042.9  | 620.9   | 641.5   | 603.8   | 583.2   | 699.8   | 775.3   | 1070.3  | 1190.4  |
| 799.3   | 85°   | 535.2   | 384.2   | 373.9   | 349.9   | 308.7   | 312.2   | 411.7   | 778.7   | 960.5   | 548.9   |
| 264.1   | 87.5° | 147.5   | 96.1    | 99.5    | 78.9    | 65.2    | 85.8    | 140.6   | 590.0   | 322.5   | 137.2   |
| 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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180°  
13018.6  
12603.5  
11502.4  
9715.1  
7756.3  
6500.7  
5684.3  
5440.7  
5344.7  
5125.1  
4874.7  
4740.9  
4672.3  
4555.7  
4198.9  
3766.7  
3303.5  
3114.9  
2987.9  
2888.5  
2833.6  
2730.7  
2555.7  
2401.3  
2229.8  
2048.0  
1866.2  
1701.5  
1540.3  
1348.2  
1180.1  
970.8  
861.0  
1193.8  
473.4  
116.6  
0.0

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