

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: P955744

Luminaire Tested: **GALN-SB8C-835-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955744  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-835-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

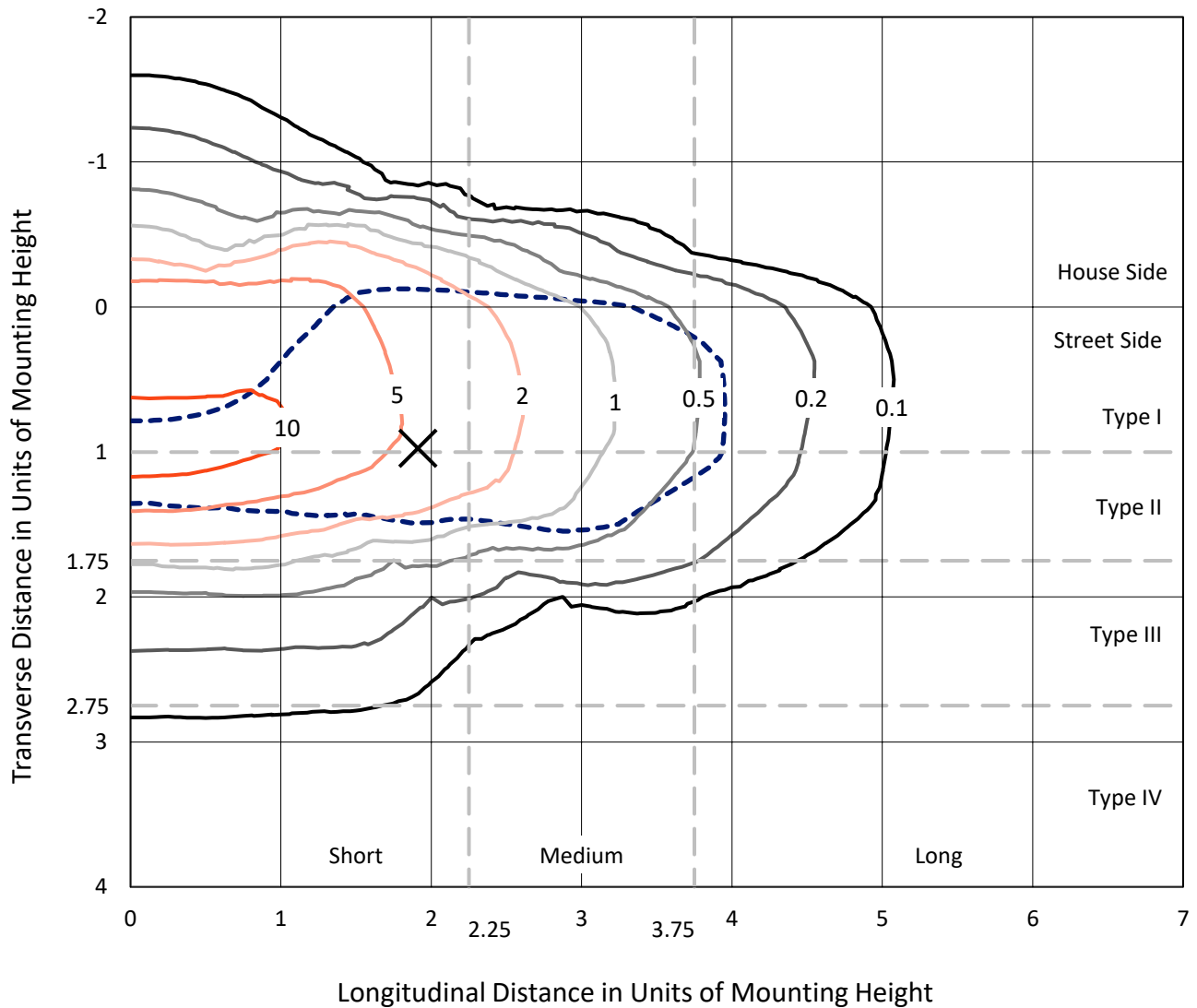
Lumens per Lamp: N/A  
Luminaire Lumens: 42927 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

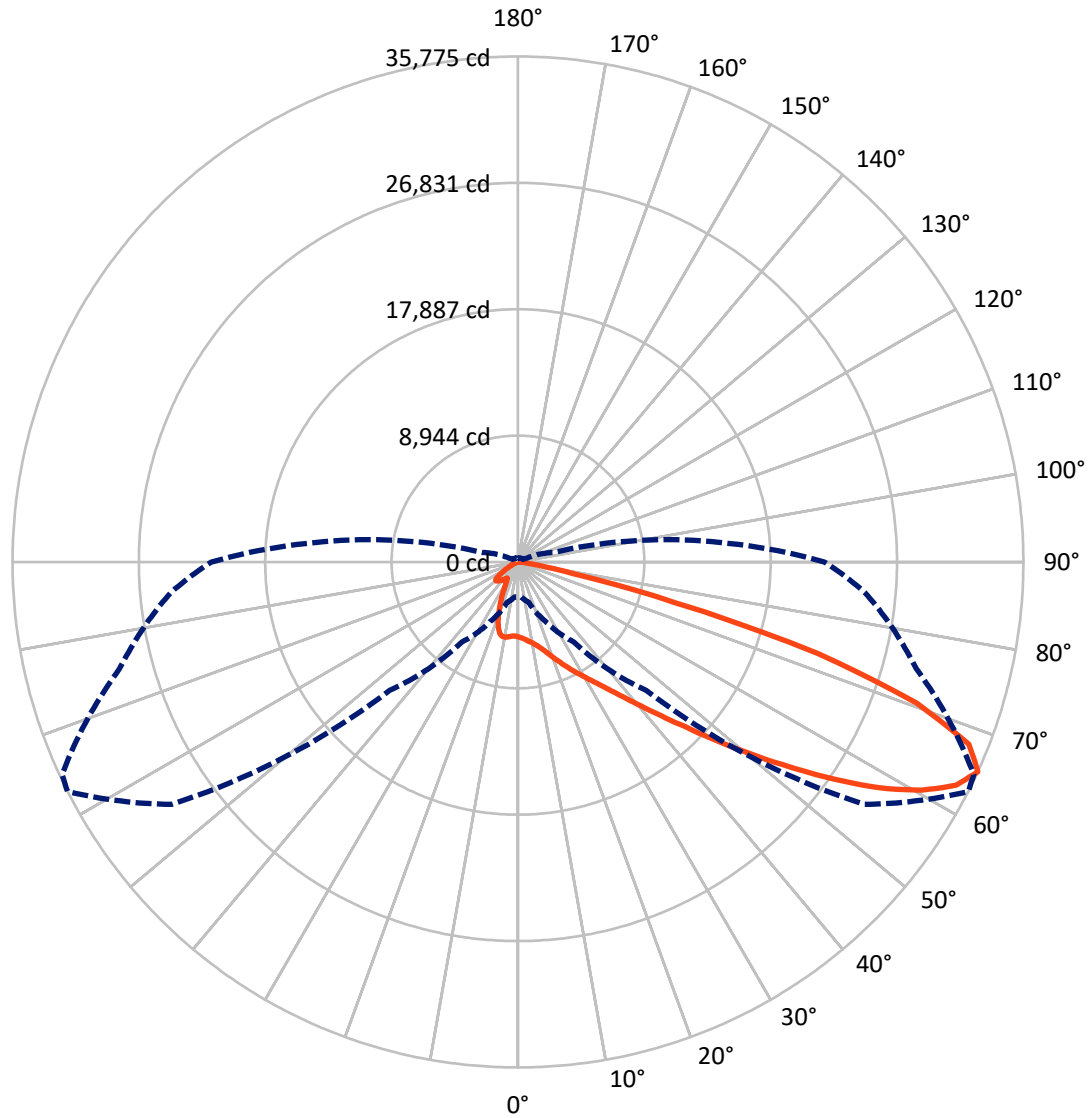
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6309.9   | 0.0    | 6309.9  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 36617.1  | 0.0    | 36617.1 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 42927.0  | 0.0    | 42927.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 499.2   | 1.2       |
| 10°-20°   | 1385.0  | 3.2       |
| 20°-30°   | 2411.7  | 5.6       |
| 30°-40°   | 4346.8  | 10.1      |
| 40°-50°   | 8621.0  | 20.1      |
| 50°-60°   | 11743.3 | 27.4      |
| 60°-70°   | 9373.4  | 21.8      |
| 70°-80°   | 4241.7  | 9.9       |
| 80°-90°   | 304.9   | 0.7       |
| 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°    | 42927.0 | 100.0     |
| 0°-180°   | 42927.0 | 100.0     |

**Coefficient of Utilization**



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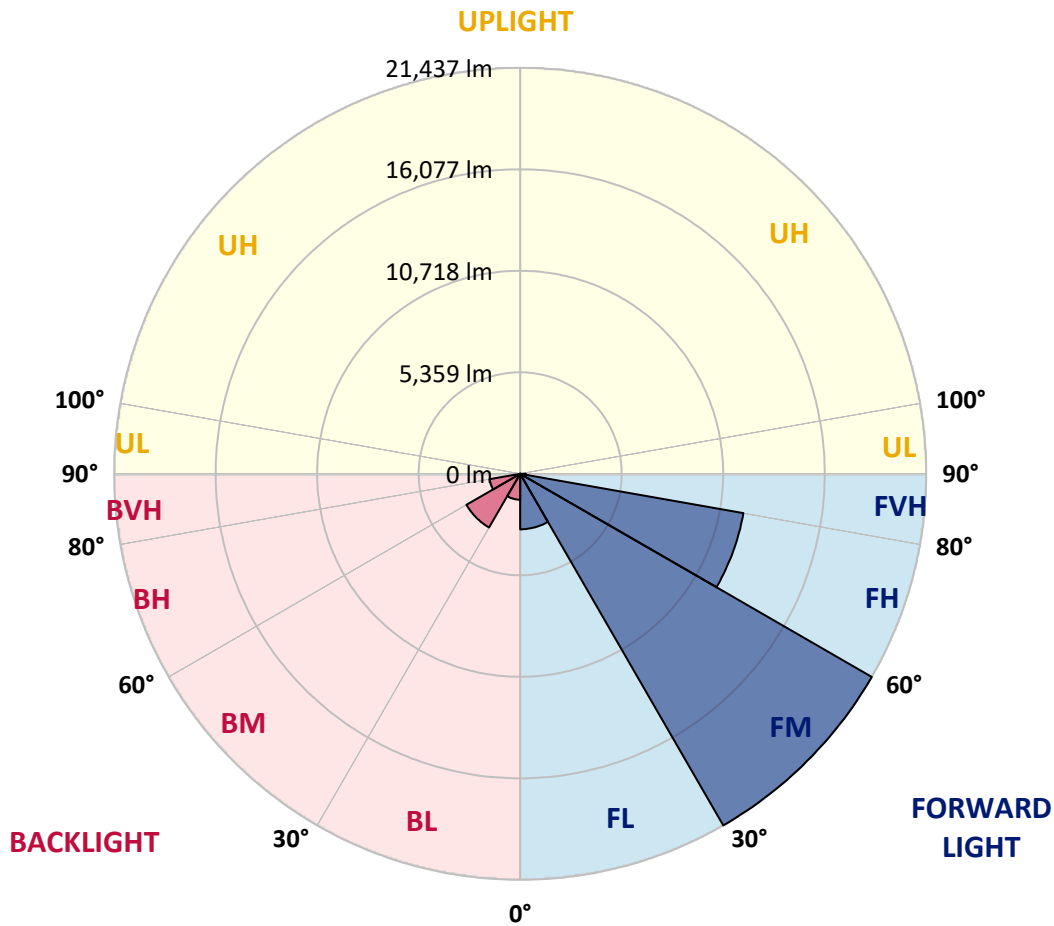
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 2930.3  | 6.8       |                         |      |          |
| FM (30°-60°)   | 21436.7 | 49.9      |                         |      |          |
| FH (60°-80°)   | 11967.8 | 27.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 282.3   | 0.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1365.6  | 3.2       | B3/2500                 |      |          |
| BM (30°-60°)   | 3274.5  | 7.6       | B3/5000                 |      |          |
| BH (60°-80°)   | 1647.3  | 3.8       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 22.6    | 0.1       |                         |      | G1/100   |
| 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  | 5298.0  |
| 2.5°  | 5422.0  | 5407.3  | 5427.9  | 5419.1  | 5413.2  | 5401.4  | 5395.5  | 5389.6  | 5377.7  | 5368.9  |
| 5°    | 5436.8  | 5427.9  | 5448.6  | 5466.3  | 5484.1  | 5501.8  | 5510.6  | 5522.4  | 5510.6  | 5487.0  |
| 7.5°  | 5312.8  | 5306.9  | 5351.2  | 5404.3  | 5484.1  | 5552.0  | 5625.8  | 5667.2  | 5670.1  | 5661.2  |
| 10°   | 5303.9  | 5289.1  | 5333.4  | 5398.4  | 5501.8  | 5622.9  | 5752.8  | 5841.4  | 5853.2  | 5891.6  |
| 12.5° | 5442.7  | 5427.9  | 5490.0  | 5560.8  | 5667.2  | 5794.1  | 5953.6  | 6077.6  | 6095.4  | 6148.5  |
| 15°   | 5676.0  | 5655.3  | 5726.2  | 5817.8  | 5953.6  | 6098.3  | 6266.6  | 6378.9  | 6393.6  | 6458.6  |
| 17.5° | 5947.7  | 5927.0  | 6009.7  | 6107.2  | 6254.8  | 6452.7  | 6647.6  | 6771.6  | 6789.4  | 6830.7  |
| 20°   | 6296.2  | 6269.6  | 6334.6  | 6423.2  | 6579.7  | 6815.9  | 7049.2  | 7226.4  | 7223.5  | 7223.5  |
| 22.5° | 6700.8  | 6659.4  | 6715.5  | 6786.4  | 6934.1  | 7220.5  | 7530.6  | 7740.3  | 7740.3  | 7657.6  |
| 25°   | 7134.9  | 7093.5  | 7155.6  | 7220.5  | 7350.5  | 7675.3  | 8038.6  | 8298.4  | 8310.2  | 8168.5  |
| 27.5° | 7678.3  | 7625.1  | 7672.4  | 7749.1  | 7825.9  | 8156.7  | 8587.8  | 8889.1  | 8895.0  | 8676.4  |
| 30°   | 8723.7  | 8573.1  | 8425.4  | 8342.7  | 8378.2  | 8706.0  | 9166.7  | 9500.4  | 9529.9  | 9228.7  |
| 32.5° | 10637.4 | 10607.8 | 10088.1 | 9408.8  | 9054.4  | 9296.6  | 9813.4  | 10215.0 | 10232.8 | 9845.9  |
| 35°   | 13611.2 | 13575.8 | 12740.0 | 11446.5 | 10291.8 | 10088.1 | 10599.0 | 11074.4 | 11062.6 | 10625.5 |
| 37.5° | 17160.9 | 17128.4 | 16026.9 | 14296.3 | 12427.0 | 11284.1 | 11611.9 | 12111.0 | 12184.8 | 11611.9 |
| 40°   | 20193.8 | 20072.8 | 19375.8 | 17707.3 | 15262.0 | 13268.6 | 13053.1 | 13383.8 | 13460.6 | 12781.4 |
| 42.5° | 22491.4 | 22388.0 | 22033.7 | 20991.2 | 18693.6 | 16204.1 | 14751.1 | 14878.1 | 14963.8 | 14148.7 |
| 45°   | 23681.5 | 23657.9 | 23799.7 | 23702.2 | 22190.2 | 19807.0 | 17178.6 | 16650.0 | 16682.5 | 15663.7 |
| 47.5° | 23849.9 | 23838.1 | 24484.8 | 25400.3 | 25196.5 | 23870.5 | 20294.2 | 18859.0 | 18743.8 | 17373.6 |
| 50°   | 22857.6 | 22834.0 | 24074.3 | 25790.1 | 27204.7 | 27284.4 | 23832.2 | 21348.5 | 21094.6 | 19142.5 |
| 52.5° | 19688.8 | 19682.9 | 21720.6 | 24576.4 | 27910.5 | 30273.0 | 27328.7 | 24083.2 | 23657.9 | 21014.8 |
| 55°   | 15149.8 | 15259.1 | 17595.0 | 20970.5 | 26622.9 | 31711.2 | 30467.9 | 27119.0 | 26466.4 | 22898.9 |
| 57.5° | 10731.9 | 10891.3 | 13200.7 | 16207.0 | 22630.2 | 30860.7 | 32591.3 | 30160.8 | 29458.0 | 24777.2 |
| 60°   | 5764.6  | 5906.4  | 8218.7  | 11806.8 | 16836.1 | 27689.0 | 33710.5 | 32801.0 | 32136.5 | 26560.9 |
| 62.5° | 3434.5  | 3481.8  | 4438.6  | 7622.2  | 11387.5 | 21153.6 | 33235.1 | 34812.1 | 34265.7 | 28058.2 |
| 65°   | 2465.9  | 2474.8  | 2956.1  | 4654.2  | 6913.4  | 12852.2 | 29900.9 | 35774.8 | 35606.5 | 29186.3 |
| 67.5° | 2076.1  | 2070.2  | 2271.0  | 3092.0  | 4710.3  | 6437.9  | 22916.7 | 34413.4 | 35128.1 | 29900.9 |
| 70°   | 1780.8  | 1789.6  | 2025.9  | 2265.1  | 3540.9  | 3644.2  | 11393.4 | 29963.0 | 31486.8 | 30089.9 |
| 72.5° | 1326.0  | 1355.5  | 1574.0  | 2064.3  | 2672.6  | 2507.2  | 3933.6  | 22216.8 | 24972.1 | 28350.5 |
| 75°   | 936.2   | 950.9   | 1107.4  | 1736.5  | 1993.4  | 1825.1  | 2008.2  | 11484.9 | 15016.9 | 21735.4 |
| 77.5° | 720.6   | 747.2   | 838.7   | 1213.8  | 1963.9  | 1281.7  | 1228.5  | 3975.0  | 6107.2  | 13129.8 |
| 80°   | 389.8   | 437.1   | 605.4   | 877.1   | 1379.1  | 906.6   | 608.4   | 1582.9  | 2070.2  | 6139.7  |
| 82.5° | 200.8   | 224.4   | 422.3   | 632.0   | 785.5   | 791.5   | 301.2   | 658.6   | 853.5   | 1895.9  |
| 85°   | 79.7    | 97.5    | 283.5   | 348.5   | 404.6   | 389.8   | 135.8   | 265.8   | 307.1   | 525.7   |
| 87.5° | 17.7    | 29.5    | 103.4   | 79.7    | 76.8    | 82.7    | 32.5    | 62.0    | 59.1    | 62.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 5298.0  | 0°    | 5298.0  | 5298.0  | 5298.0 | 5298.0 | 5298.0 | 5298.0 | 5298.0 | 5298.0 | 5298.0 | 5298.0 |
| 5333.4  | 2.5°  | 5330.5  | 5318.7  | 5286.2 | 5250.8 | 5209.4 | 5185.8 | 5171.0 | 5168.1 | 5147.4 | 5132.6 |
| 5451.6  | 5°    | 5419.1  | 5407.3  | 5345.3 | 5271.4 | 5191.7 | 5129.7 | 5070.6 | 5017.5 | 4940.7 | 4925.9 |
| 5622.9  | 7.5°  | 5596.3  | 5563.8  | 5463.4 | 5363.0 | 5212.4 | 5032.2 | 4813.7 | 4562.7 | 4338.2 | 4270.3 |
| 5850.2  | 10°   | 5814.8  | 5770.5  | 5643.5 | 5466.3 | 5132.6 | 4642.4 | 4113.8 | 3623.6 | 3233.7 | 3124.5 |
| 6119.0  | 12.5° | 6062.9  | 6024.5  | 5856.2 | 5528.4 | 4798.9 | 3910.0 | 3100.8 | 2492.5 | 2114.5 | 2020.0 |
| 6405.4  | 15°   | 6358.2  | 6302.1  | 6068.8 | 5433.8 | 4202.4 | 2970.9 | 2129.2 | 1769.0 | 1633.1 | 1615.4 |
| 6733.2  | 17.5° | 6671.2  | 6579.7  | 6257.8 | 5094.2 | 3399.1 | 2111.5 | 1644.9 | 1541.6 | 1482.5 | 1464.8 |
| 7064.0  | 20°   | 6957.7  | 6839.6  | 6370.0 | 4580.4 | 2539.7 | 1644.9 | 1473.6 | 1405.7 | 1352.6 | 1331.9 |
| 7394.8  | 22.5° | 7244.1  | 7075.8  | 6370.0 | 3880.5 | 1904.8 | 1458.9 | 1352.6 | 1290.5 | 1228.5 | 1201.9 |
| 7749.1  | 25°   | 7542.4  | 7318.0  | 6257.8 | 3100.8 | 1532.7 | 1337.8 | 1237.4 | 1169.5 | 1116.3 | 1083.8 |
| 8085.8  | 27.5° | 7831.8  | 7521.7  | 6000.9 | 2362.5 | 1364.4 | 1231.5 | 1131.1 | 1066.1 | 1015.9 | 992.3  |
| 8452.0  | 30°   | 8106.5  | 7722.6  | 5640.6 | 1792.6 | 1255.1 | 1128.1 | 1033.6 | 977.5  | 927.3  | 903.7  |
| 8927.5  | 32.5° | 8478.6  | 7976.5  | 5256.7 | 1470.7 | 1160.6 | 1030.7 | 945.0  | 891.9  | 847.6  | 829.8  |
| 9544.7  | 35°   | 8995.4  | 8351.6  | 4925.9 | 1444.1 | 1080.9 | 950.9  | 865.3  | 815.1  | 770.8  | 756.0  |
| 10342.0 | 37.5° | 9727.8  | 8957.0  | 4751.7 | 1621.3 | 1015.9 | 880.0  | 800.3  | 747.2  | 705.8  | 694.0  |
| 11355.0 | 40°   | 10631.4 | 9778.0  | 4846.2 | 1798.5 | 971.6  | 818.0  | 741.2  | 688.1  | 652.7  | 637.9  |
| 12518.5 | 42.5° | 11703.4 | 10790.9 | 5368.9 | 1934.3 | 942.1  | 764.9  | 685.1  | 626.1  | 602.4  | 596.5  |
| 13838.6 | 45°   | 12934.9 | 11904.3 | 6169.2 | 2079.0 | 894.8  | 714.7  | 629.0  | 584.7  | 567.0  | 564.1  |
| 15273.8 | 47.5° | 14334.7 | 13126.9 | 7096.5 | 2259.2 | 847.6  | 667.4  | 584.7  | 555.2  | 540.4  | 534.5  |
| 16771.1 | 50°   | 15722.7 | 14358.4 | 8050.4 | 2359.6 | 809.2  | 623.1  | 549.3  | 525.7  | 513.9  | 510.9  |
| 18354.0 | 52.5° | 17175.7 | 15625.3 | 8821.1 | 2265.1 | 776.7  | 587.7  | 519.8  | 502.0  | 490.2  | 487.3  |
| 19812.9 | 55°   | 18560.7 | 16650.0 | 8954.0 | 1922.5 | 711.7  | 552.2  | 487.3  | 478.4  | 463.6  | 463.6  |
| 21292.4 | 57.5° | 19753.8 | 17163.9 | 8014.9 | 1411.6 | 646.7  | 499.1  | 454.8  | 445.9  | 434.1  | 431.2  |
| 22627.3 | 60°   | 20849.4 | 17016.2 | 6186.9 | 950.9  | 575.9  | 445.9  | 413.4  | 407.5  | 395.7  | 381.0  |
| 23787.9 | 62.5° | 21466.7 | 16366.5 | 4231.9 | 620.2  | 505.0  | 389.8  | 366.2  | 363.2  | 336.7  | 307.1  |
| 24647.2 | 65°   | 21700.0 | 15031.7 | 2640.1 | 451.8  | 422.3  | 333.7  | 316.0  | 310.1  | 271.7  | 239.2  |
| 25134.5 | 67.5° | 21496.2 | 12834.5 | 1331.9 | 357.3  | 333.7  | 277.6  | 259.9  | 259.9  | 233.3  | 203.8  |
| 25105.0 | 70°   | 20681.1 | 9621.5  | 561.1  | 286.5  | 256.9  | 212.6  | 212.6  | 224.4  | 197.9  | 165.4  |
| 23802.6 | 72.5° | 18912.2 | 6473.4  | 298.3  | 218.5  | 192.0  | 150.6  | 174.2  | 183.1  | 156.5  | 124.0  |
| 19482.1 | 75°   | 15034.6 | 3948.4  | 206.7  | 162.4  | 121.1  | 106.3  | 132.9  | 138.8  | 106.3  | 82.7   |
| 13357.2 | 77.5° | 10283.0 | 2268.0  | 138.8  | 103.4  | 76.8   | 62.0   | 91.5   | 85.6   | 56.1   | 38.4   |
| 5150.3  | 80°   | 4515.4  | 945.0   | 79.7   | 47.3   | 29.5   | 23.6   | 32.5   | 23.6   | 17.7   | 11.8   |
| 705.8   | 82.5° | 528.6   | 221.5   | 29.5   | 17.7   | 11.8   | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    |
| 215.6   | 85°   | 109.3   | 26.6    | 14.8   | 5.9    | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 38.4    | 87.5° | 20.7    | 5.9     | 3.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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> |
|-------------|
| 5298.0      |
| 5147.4      |
| 4920.0      |
| 4237.8      |
| 3083.1      |
| 1993.4      |
| 1597.7      |
| 1455.9      |
| 1320.1      |
| 1187.2      |
| 1072.0      |
| 992.3       |
| 906.6       |
| 829.8       |
| 756.0       |
| 691.0       |
| 634.9       |
| 596.5       |
| 561.1       |
| 534.5       |
| 510.9       |
| 487.3       |
| 460.7       |
| 428.2       |
| 378.0       |
| 301.2       |
| 236.3       |
| 200.8       |
| 162.4       |
| 124.0       |
| 79.7        |
| 41.3        |
| 11.8        |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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