

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: P944015

Luminaire Tested: **GALN-SB8D-735-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944015  
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-SB8D-735-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

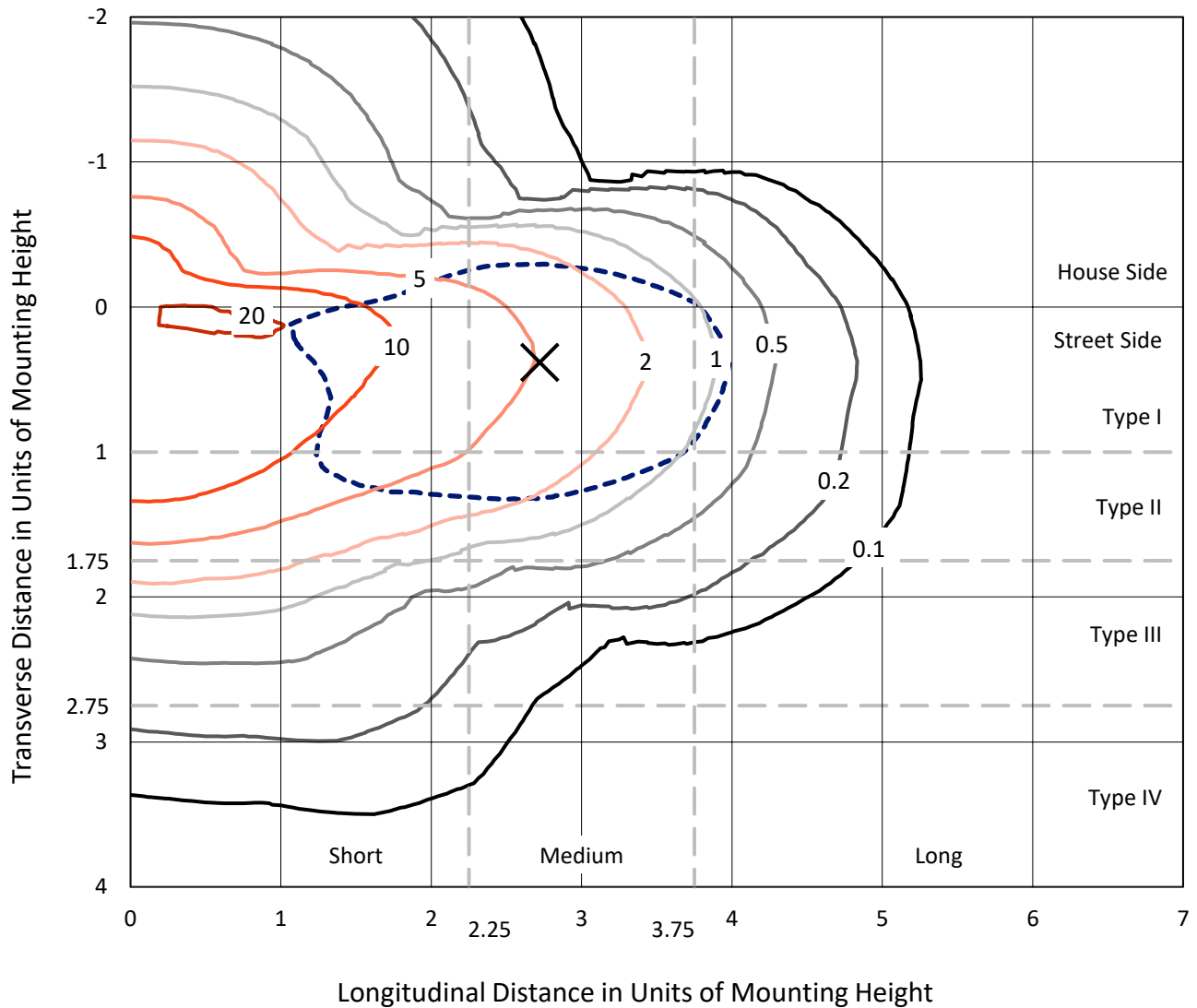
Lumens per Lamp: N/A  
Luminaire Lumens: 81532 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

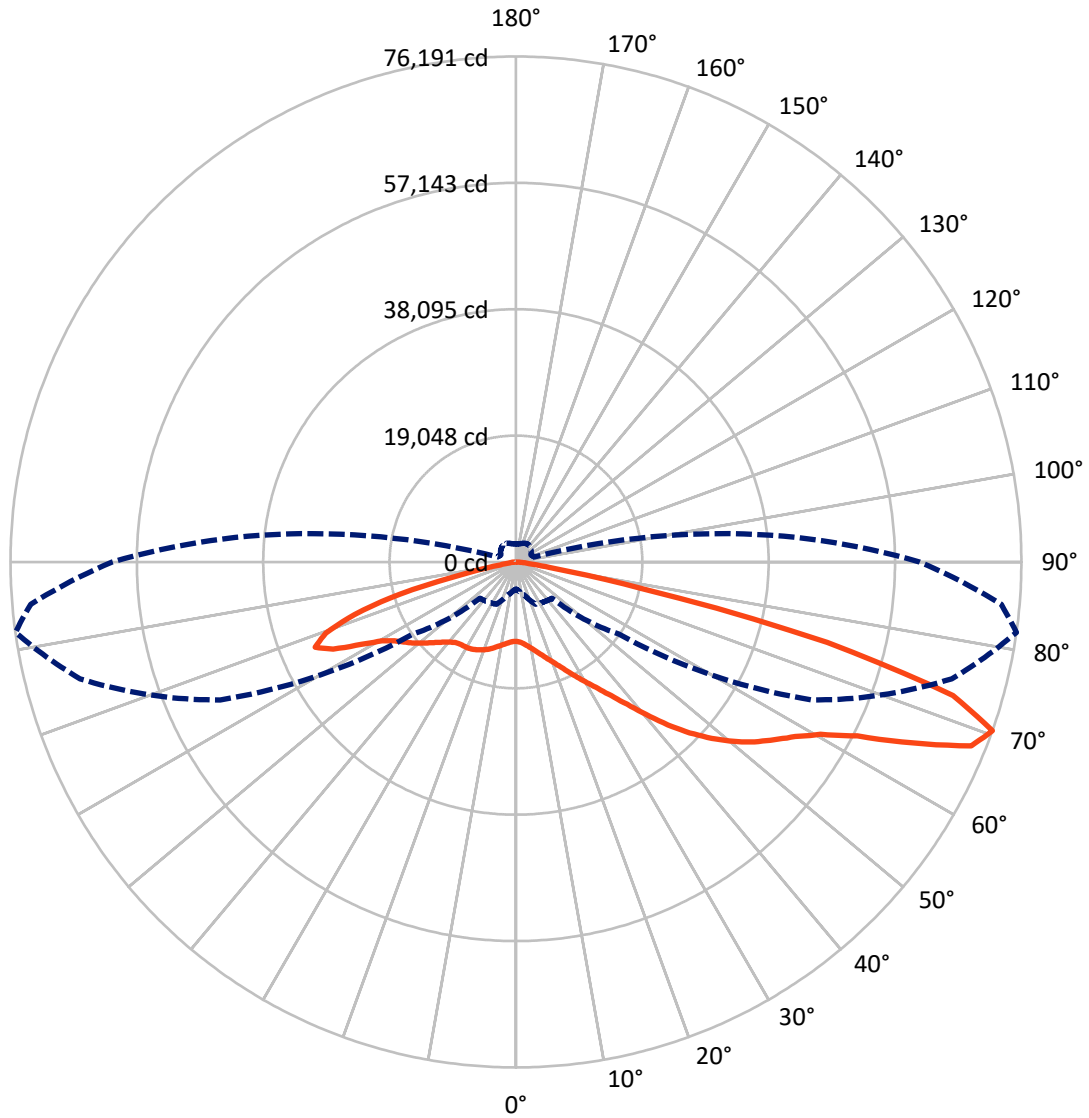
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 20099.6  | 0.0    | 20099.6 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 61432.4  | 0.0    | 61432.4 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 81532.0  | 0.0    | 81532.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1128.6  | 1.4       |
| 10°-20°   | 3242.6  | 4.0       |
| 20°-30°   | 5424.6  | 6.7       |
| 30°-40°   | 8474.6  | 10.4      |
| 40°-50°   | 13496.8 | 16.6      |
| 50°-60°   | 18782.4 | 23.0      |
| 60°-70°   | 19647.3 | 24.1      |
| 70°-80°   | 10268.7 | 12.6      |
| 80°-90°   | 1066.3  | 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°    | 81532.0 | 100.0     |
| 0°-180°   | 81532.0 | 100.0     |

**Coefficient of Utilization**



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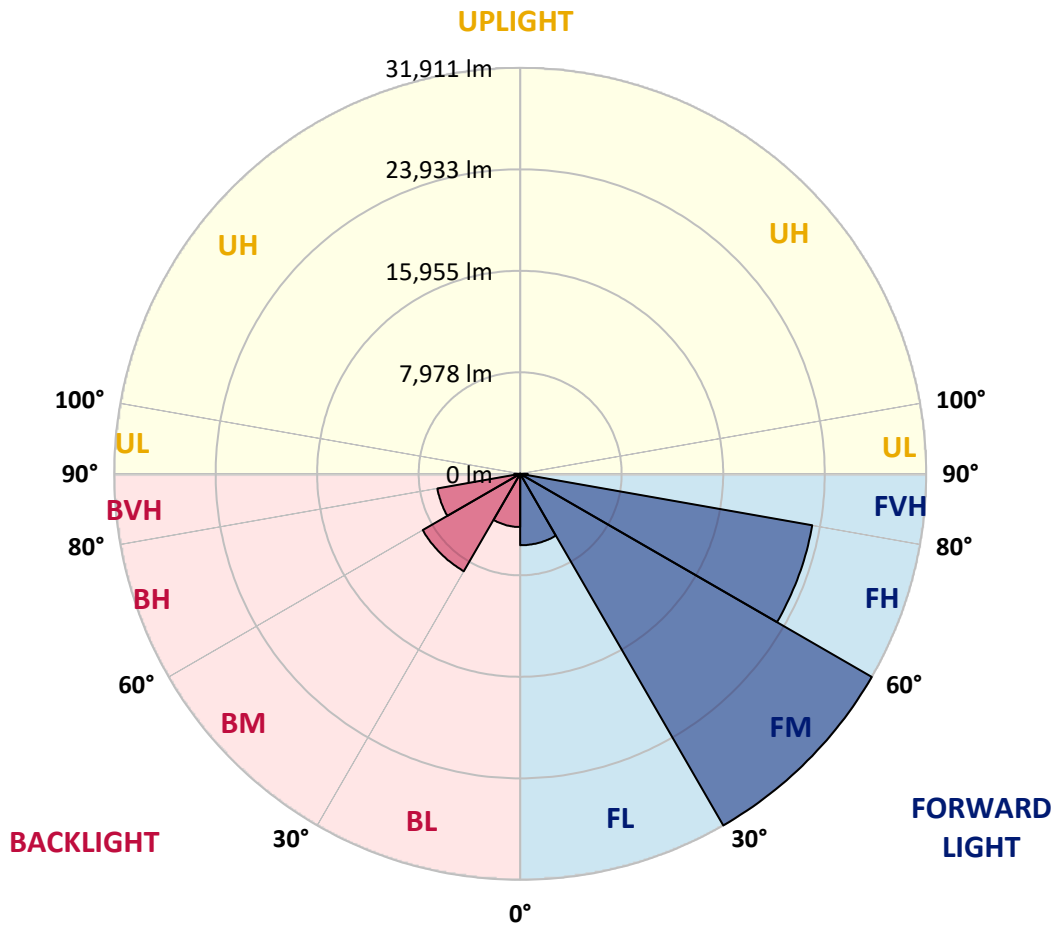
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 5614.4  | 6.9       |                         |      |        |
| FM (30°-60°)   | 31910.8 | 39.1      |                         |      |        |
| FH (60°-80°)   | 23310.3 | 28.6      |                         |      | G5     |
| FVH (80°-90°)  | 596.9   | 0.7       |                         |      | G4/750 |
| BL (0°-30°)    | 4181.5  | 5.1       | B4/5000                 |      |        |
| BM (30°-60°)   | 8843.0  | 10.8      | B5                      |      |        |
| BH (60°-80°)   | 6605.8  | 8.1       | B5                      |      | G5     |
| BVH (80°-90°)  | 469.4   | 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°    | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 |
| 2.5°  | 12239.1 | 12308.4 | 12286.7 | 12265.1 | 12265.1 | 12234.8 | 12230.5 | 12187.2 | 12152.6 | 12096.4 |
| 5°    | 12394.9 | 12468.4 | 12459.8 | 12477.1 | 12533.3 | 12546.3 | 12559.3 | 12533.3 | 12464.1 | 12394.9 |
| 7.5°  | 12256.5 | 12338.7 | 12364.6 | 12468.4 | 12641.5 | 12797.2 | 12914.1 | 12961.6 | 12896.7 | 12797.2 |
| 10°   | 11789.2 | 11880.1 | 11970.9 | 12217.5 | 12524.7 | 12892.4 | 13203.9 | 13389.9 | 13377.0 | 13281.8 |
| 12.5° | 10841.7 | 10936.9 | 11131.6 | 11611.8 | 12174.3 | 12823.2 | 13402.9 | 13792.3 | 13926.4 | 13857.2 |
| 15°   | 10084.6 | 10166.8 | 10313.9 | 10807.1 | 11538.3 | 12524.7 | 13476.5 | 14233.6 | 14575.4 | 14536.4 |
| 17.5° | 10063.0 | 10097.6 | 10188.5 | 10422.1 | 10984.5 | 12057.4 | 13398.6 | 14666.2 | 15319.5 | 15315.2 |
| 20°   | 10443.7 | 10456.7 | 10508.6 | 10556.2 | 10876.4 | 11702.7 | 13199.6 | 15025.3 | 16154.5 | 16154.5 |
| 22.5° | 10971.5 | 10962.9 | 11014.8 | 10971.5 | 11127.3 | 11672.4 | 13074.1 | 15341.1 | 17084.6 | 17153.8 |
| 25°   | 11763.3 | 11720.0 | 11707.0 | 11607.5 | 11637.8 | 11953.6 | 13212.6 | 15700.2 | 18187.8 | 18330.6 |
| 27.5° | 12818.9 | 12749.7 | 12702.1 | 12472.8 | 12394.9 | 12533.3 | 13636.5 | 16132.8 | 19416.5 | 19663.1 |
| 30°   | 14194.6 | 14069.2 | 14000.0 | 13601.9 | 13320.7 | 13342.4 | 14276.8 | 16708.2 | 20701.4 | 21099.4 |
| 32.5° | 16072.3 | 15877.6 | 15691.5 | 15038.3 | 14523.4 | 14354.7 | 15103.2 | 17504.3 | 22094.5 | 22730.5 |
| 35°   | 18174.9 | 18019.1 | 17820.1 | 16812.1 | 16020.3 | 15631.0 | 16219.4 | 18616.1 | 23725.5 | 24733.5 |
| 37.5° | 20199.6 | 20065.5 | 20160.6 | 18802.2 | 17781.2 | 17214.4 | 17681.7 | 20108.7 | 25737.3 | 27225.5 |
| 40°   | 22293.5 | 22189.7 | 22202.7 | 20904.8 | 19715.0 | 19079.1 | 19455.4 | 21982.0 | 28043.2 | 30189.0 |
| 42.5° | 24569.1 | 24491.3 | 24231.7 | 23080.9 | 21744.1 | 21151.4 | 21497.5 | 24145.2 | 30517.8 | 33563.6 |
| 45°   | 27117.3 | 27069.8 | 26827.5 | 25508.0 | 23976.4 | 23310.2 | 23777.4 | 26533.3 | 33005.5 | 36739.1 |
| 47.5° | 29319.4 | 29358.4 | 29328.1 | 28216.2 | 26628.5 | 25650.7 | 26208.8 | 29025.3 | 35320.0 | 39724.2 |
| 50°   | 30379.4 | 30582.7 | 30881.2 | 30535.1 | 29548.7 | 28553.7 | 28661.8 | 31430.7 | 37526.5 | 42523.4 |
| 52.5° | 29825.6 | 30210.7 | 31024.0 | 31577.8 | 31958.5 | 31750.8 | 31461.0 | 33818.8 | 39603.1 | 45049.9 |
| 55°   | 27762.0 | 28302.8 | 29652.6 | 30989.4 | 32931.9 | 34441.8 | 34822.5 | 36466.5 | 41627.8 | 47273.7 |
| 57.5° | 24002.4 | 24880.6 | 26092.0 | 28796.0 | 32066.7 | 35744.0 | 38742.2 | 40139.6 | 43773.7 | 49648.8 |
| 60°   | 17556.2 | 18732.9 | 20238.5 | 24262.0 | 29038.2 | 35047.5 | 42077.7 | 45781.1 | 46823.7 | 52724.8 |
| 62.5° | 11235.4 | 11962.3 | 13346.7 | 17136.5 | 22626.6 | 31478.3 | 43098.8 | 52833.0 | 51993.7 | 57769.3 |
| 65°   | 7692.2  | 8159.4  | 9427.0  | 11555.6 | 14627.3 | 23431.3 | 40364.5 | 58119.7 | 60205.0 | 65764.3 |
| 67.5° | 5589.6  | 5944.4  | 7025.9  | 8890.6  | 9530.9  | 13865.8 | 31322.5 | 57877.5 | 68187.1 | 74001.6 |
| 70°   | 4075.4  | 4326.3  | 5234.8  | 7025.9  | 7333.1  | 7713.8  | 18975.2 | 49198.9 | 68014.0 | 76190.7 |
| 72.5° | 3019.8  | 3192.8  | 3802.8  | 5451.2  | 5935.7  | 5208.9  | 9392.4  | 35757.0 | 58444.2 | 68913.9 |
| 75°   | 2184.8  | 2314.6  | 2764.5  | 4170.6  | 4750.3  | 3967.2  | 4685.4  | 20896.1 | 40766.9 | 48476.4 |
| 77.5° | 1670.0  | 1769.5  | 2063.7  | 3054.4  | 3802.8  | 2976.5  | 2907.3  | 9613.1  | 19330.0 | 19425.2 |
| 80°   | 1341.2  | 1406.1  | 1566.1  | 2150.2  | 2915.9  | 2228.1  | 1894.9  | 3880.7  | 6108.8  | 5169.9  |
| 82.5° | 986.4   | 1094.6  | 1323.9  | 1509.9  | 2085.3  | 1535.8  | 1155.1  | 1959.8  | 2323.2  | 1998.8  |
| 85°   | 562.4   | 636.0   | 800.4   | 1081.6  | 1332.5  | 938.8   | 661.9   | 869.6   | 1081.6  | 886.9   |
| 87.5° | 199.0   | 259.6   | 281.2   | 424.0   | 579.7   | 389.4   | 255.3   | 250.9   | 354.8   | 263.9   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11953.6 | 0°    | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 | 11953.6 |
| 12083.4 | 2.5°  | 12040.1 | 12018.5 | 11932.0 | 11815.2 | 11694.0 | 11577.2 | 11538.3 | 11456.1 | 11399.8 | 11369.6 |
| 12364.6 | 5°    | 12282.4 | 12213.2 | 12009.9 | 11750.3 | 11477.7 | 11183.5 | 10975.9 | 10785.5 | 10647.1 | 10517.3 |
| 12749.7 | 7.5°  | 12628.5 | 12507.4 | 12156.9 | 11702.7 | 11218.1 | 10729.3 | 10365.9 | 10089.0 | 9902.9  | 9781.8  |
| 13199.6 | 10°   | 13030.9 | 12844.8 | 12308.4 | 11629.1 | 10880.7 | 10179.8 | 9751.5  | 9513.6  | 9396.8  | 9331.9  |
| 13714.4 | 12.5° | 13493.8 | 13229.9 | 12464.1 | 11460.4 | 10365.9 | 9565.5  | 9271.3  | 9202.1  | 9206.4  | 9210.7  |
| 14363.4 | 15°   | 14064.9 | 13697.1 | 12589.6 | 11092.7 | 9695.3  | 9093.9  | 9042.0  | 9154.5  | 9271.3  | 9327.5  |
| 15098.8 | 17.5° | 14709.5 | 14190.3 | 12611.2 | 10487.0 | 9037.7  | 8791.1  | 8955.5  | 9197.7  | 9375.1  | 9453.0  |
| 15920.8 | 20°   | 15401.7 | 14692.2 | 12455.5 | 9630.4  | 8496.9  | 8544.5  | 8838.7  | 9150.2  | 9344.8  | 9444.3  |
| 16859.7 | 22.5° | 16193.4 | 15228.6 | 12083.4 | 8730.5  | 8055.6  | 8276.2  | 8622.3  | 8925.2  | 9128.5  | 9228.0  |
| 17962.9 | 25°   | 17097.6 | 15830.0 | 11499.3 | 7973.4  | 7674.9  | 7973.4  | 8319.5  | 8570.4  | 8734.8  | 8825.7  |
| 19195.9 | 27.5° | 18101.3 | 16457.3 | 10720.6 | 7372.0  | 7341.8  | 7661.9  | 7947.4  | 8142.1  | 8228.7  | 8297.9  |
| 20506.7 | 30°   | 19109.3 | 17028.4 | 9777.5  | 6917.8  | 7051.9  | 7354.7  | 7558.1  | 7644.6  | 7670.6  | 7683.5  |
| 21969.0 | 32.5° | 20199.6 | 17521.6 | 8786.7  | 6541.4  | 6775.0  | 7056.2  | 7177.4  | 7216.3  | 7095.2  | 7013.0  |
| 23742.8 | 35°   | 21519.1 | 18049.4 | 7817.7  | 6242.9  | 6502.5  | 6744.7  | 6783.7  | 6749.1  | 6606.3  | 6437.6  |
| 25966.5 | 37.5° | 23150.1 | 18707.0 | 7043.2  | 6030.9  | 6247.2  | 6407.3  | 6359.7  | 6351.0  | 6364.0  | 6165.0  |
| 28640.2 | 40°   | 25148.9 | 19563.6 | 6476.5  | 5866.5  | 6039.5  | 6074.1  | 5940.0  | 6013.6  | 6078.5  | 5775.6  |
| 31573.5 | 42.5° | 27368.3 | 20597.6 | 6117.4  | 5754.0  | 5866.5  | 5784.3  | 5576.6  | 5658.8  | 5650.2  | 5252.1  |
| 34519.7 | 45°   | 29630.9 | 21722.4 | 5991.9  | 5671.8  | 5706.4  | 5542.0  | 5312.7  | 5334.3  | 5152.6  | 4793.6  |
| 37344.8 | 47.5° | 31880.6 | 22929.5 | 6069.8  | 5602.6  | 5507.4  | 5321.4  | 5144.0  | 5048.8  | 4780.6  | 4512.3  |
| 40053.0 | 50°   | 34087.0 | 24197.1 | 6355.4  | 5464.1  | 5234.8  | 5126.7  | 4996.9  | 4828.2  | 4542.6  | 4313.3  |
| 42614.2 | 52.5° | 36133.4 | 25473.3 | 6675.5  | 5234.8  | 4893.1  | 4958.0  | 4875.8  | 4681.1  | 4399.9  | 4166.2  |
| 45036.9 | 55°   | 38071.6 | 26749.6 | 6801.0  | 4919.0  | 4572.9  | 4810.9  | 4763.3  | 4404.2  | 4066.7  | 3876.4  |
| 47572.2 | 57.5° | 40182.8 | 28285.5 | 6662.5  | 4516.7  | 4313.3  | 4642.1  | 4460.4  | 4062.4  | 3867.7  | 3725.0  |
| 50873.1 | 60°   | 43107.4 | 30695.2 | 6364.0  | 4019.1  | 4066.7  | 4391.2  | 4079.7  | 3915.3  | 3703.3  | 3543.3  |
| 55822.5 | 62.5° | 47965.9 | 35190.3 | 5883.8  | 3525.9  | 3776.9  | 4019.1  | 3898.0  | 3733.6  | 3517.3  | 3361.5  |
| 64284.7 | 65°   | 55147.5 | 41437.5 | 4979.6  | 3140.9  | 3452.4  | 3655.7  | 3703.3  | 3538.9  | 3314.0  | 3149.6  |
| 71700.0 | 67.5° | 61204.4 | 45357.1 | 3768.2  | 2820.8  | 3119.3  | 3361.5  | 3495.7  | 3335.6  | 3097.6  | 2937.6  |
| 73434.9 | 70°   | 60871.3 | 42510.4 | 2877.0  | 2504.9  | 2825.1  | 3071.7  | 3244.7  | 3119.3  | 2864.0  | 2712.6  |
| 66703.1 | 72.5° | 54066.0 | 35562.3 | 2327.6  | 2184.8  | 2526.6  | 2768.8  | 2976.5  | 2881.3  | 2621.7  | 2474.7  |
| 48865.7 | 75°   | 39719.9 | 25244.1 | 1860.3  | 1860.3  | 2154.5  | 2453.0  | 2682.3  | 2621.7  | 2383.8  | 2280.0  |
| 20515.4 | 77.5° | 16742.8 | 10590.8 | 1458.0  | 1544.5  | 1791.1  | 2106.9  | 2392.5  | 2414.1  | 2206.4  | 2336.2  |
| 5425.2  | 80°   | 4451.8  | 2920.3  | 1111.9  | 1215.7  | 1406.1  | 1739.2  | 2081.0  | 2072.3  | 1847.3  | 1726.2  |
| 2016.1  | 82.5° | 1695.9  | 1150.8  | 791.7   | 856.6   | 1016.7  | 1332.5  | 1648.3  | 1700.2  | 1475.3  | 1276.3  |
| 791.7   | 85°   | 653.3   | 493.2   | 488.9   | 514.8   | 592.7   | 882.6   | 1246.0  | 1289.2  | 1111.9  | 943.1   |
| 220.6   | 87.5° | 168.7   | 147.1   | 181.7   | 173.1   | 272.6   | 471.6   | 713.8   | 739.8   | 679.2   | 393.7   |
| 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> |
|-------------|
| 11953.6     |
| 11404.2     |
| 10569.2     |
| 9807.8      |
| 9349.2      |
| 9219.4      |
| 9323.2      |
| 9470.3      |
| 9470.3      |
| 9254.0      |
| 8851.6      |
| 8323.8      |
| 7713.8      |
| 7038.9      |
| 6446.2      |
| 6178.0      |
| 5784.3      |
| 5247.8      |
| 4806.5      |
| 4512.3      |
| 4296.0      |
| 4170.6      |
| 3859.1      |
| 3712.0      |
| 3534.6      |
| 3361.5      |
| 3158.2      |
| 2941.9      |
| 2725.6      |
| 2474.7      |
| 2249.7      |
| 2119.9      |
| 1605.1      |
| 1276.3      |
| 973.4       |
| 562.4       |
| 0.0         |

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