

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: P949540

Luminaire Tested: **GALN-SB4B-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949540  
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-SB4B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

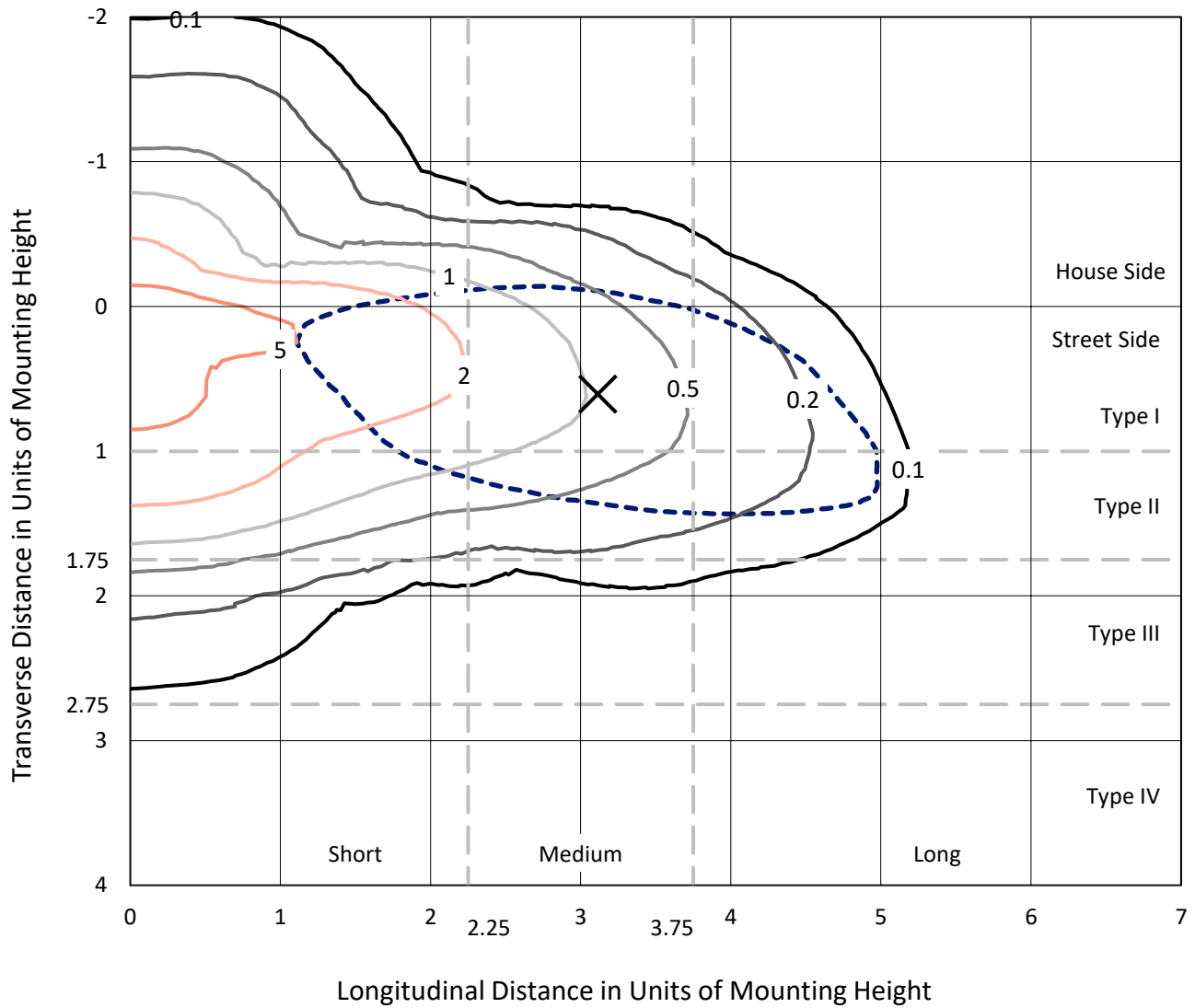
Lumens per Lamp: N/A  
Luminaire Lumens: 22431 lumens  
Efficiency: N/A  
Efficacy: 152.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

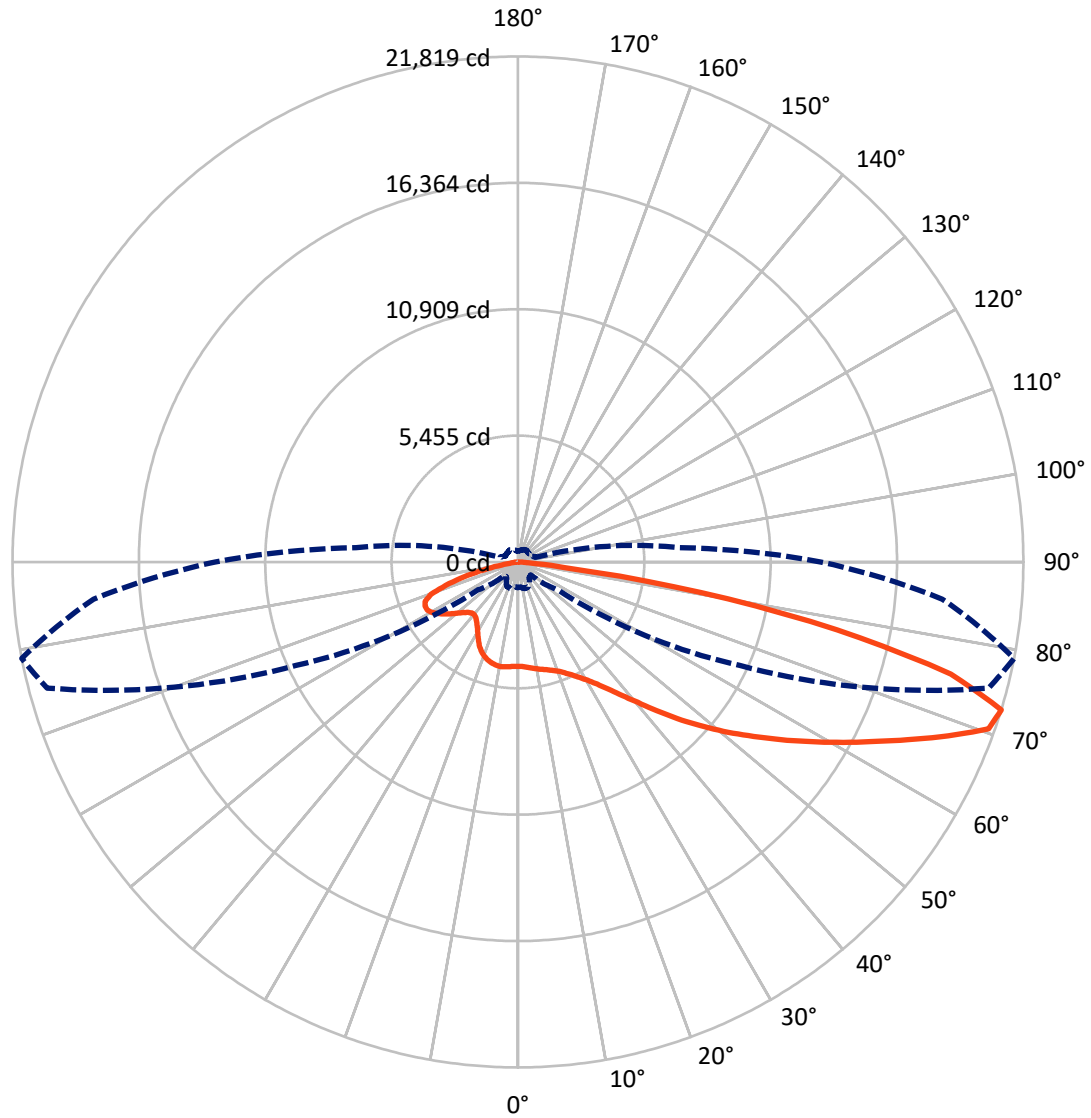
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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    | 4936.0   | 0.0    | 4936.0  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 17494.9  | 0.0    | 17494.9 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 22431.0  | 0.0    | 22431.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 408.7   | 1.8       |
| 10°-20°   | 1068.6  | 4.8       |
| 20°-30°   | 1724.3  | 7.7       |
| 30°-40°   | 2587.9  | 11.5      |
| 40°-50°   | 3671.1  | 16.4      |
| 50°-60°   | 4636.1  | 20.7      |
| 60°-70°   | 4708.6  | 21.0      |
| 70°-80°   | 3209.1  | 14.3      |
| 80°-90°   | 416.4   | 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°    | 22431.0 | 100.0     |
| 0°-180°   | 22431.0 | 100.0     |



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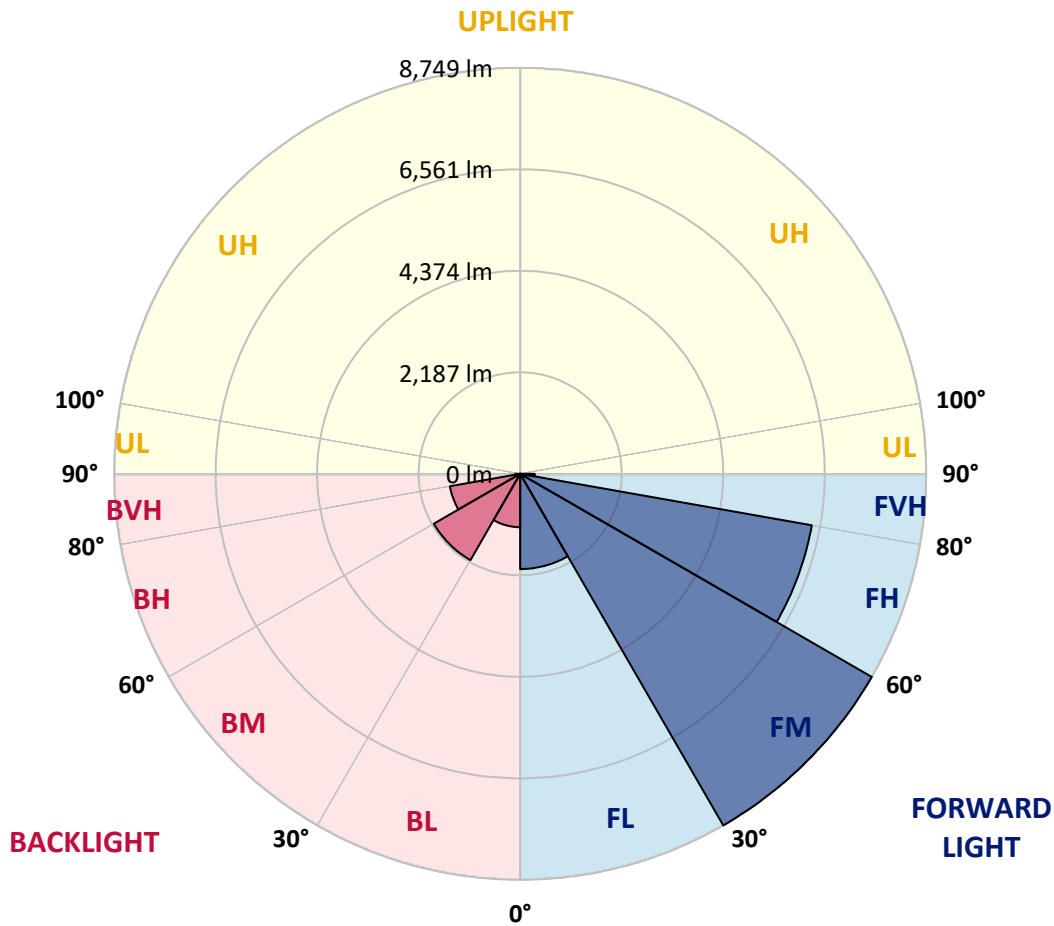
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2051.9 | 9.1       |                         |      |         |
| FM (30°-60°)   | 8748.5 | 39.0      |                         |      |         |
| FH (60°-80°)   | 6380.9 | 28.4      |                         |      | G3/7500 |
| FVH (80°-90°)  | 313.6  | 1.4       |                         |      | G3/500  |
| BL (0°-30°)    | 1149.7 | 5.1       | B3/2500                 |      |         |
| BM (30°-60°)   | 2146.7 | 9.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 1536.9 | 6.9       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 102.7  | 0.5       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8  | 4502.8  | 4502.8  |
| 2.5°  | 4505.2 | 4483.8 | 4496.9 | 4492.1 | 4498.1 | 4505.2 | 4507.6 | 4511.1  | 4523.0  | 4521.8  |
| 5°    | 4495.7 | 4474.3 | 4492.1 | 4486.2 | 4501.6 | 4518.2 | 4532.5 | 4545.5  | 4564.5  | 4572.8  |
| 7.5°  | 4475.5 | 4461.3 | 4479.1 | 4496.9 | 4525.4 | 4550.3 | 4570.4 | 4600.1  | 4627.4  | 4632.1  |
| 10°   | 4358.1 | 4347.4 | 4388.9 | 4435.2 | 4513.5 | 4581.1 | 4625.0 | 4659.4  | 4689.1  | 4693.8  |
| 12.5° | 4235.8 | 4222.8 | 4269.1 | 4332.0 | 4458.9 | 4581.1 | 4673.7 | 4718.8  | 4744.9  | 4760.3  |
| 15°   | 4215.7 | 4205.0 | 4231.1 | 4285.7 | 4391.3 | 4549.1 | 4706.9 | 4789.9  | 4812.5  | 4830.3  |
| 17.5° | 4313.0 | 4292.8 | 4303.5 | 4322.5 | 4384.2 | 4519.4 | 4733.0 | 4870.6  | 4905.0  | 4924.0  |
| 20°   | 4538.4 | 4509.9 | 4493.3 | 4455.3 | 4444.7 | 4524.2 | 4730.6 | 4967.9  | 5013.0  | 5036.7  |
| 22.5° | 4838.6 | 4819.6 | 4784.0 | 4687.9 | 4583.5 | 4582.3 | 4775.7 | 5092.5  | 5176.7  | 5199.3  |
| 25°   | 5201.7 | 5173.2 | 5128.1 | 4997.6 | 4797.1 | 4697.4 | 4851.6 | 5251.5  | 5392.7  | 5398.6  |
| 27.5° | 5619.3 | 5576.6 | 5514.9 | 5342.9 | 5072.3 | 4877.7 | 4967.9 | 5434.2  | 5640.7  | 5638.3  |
| 30°   | 6059.5 | 6016.8 | 5951.5 | 5742.7 | 5402.2 | 5121.0 | 5129.3 | 5631.2  | 5934.9  | 5921.9  |
| 32.5° | 6381.1 | 6349.0 | 6336.0 | 6174.6 | 5781.9 | 5408.1 | 5314.4 | 5849.5  | 6298.0  | 6286.1  |
| 35°   | 6627.9 | 6586.3 | 6601.7 | 6519.9 | 6196.0 | 5729.7 | 5541.0 | 6109.3  | 6739.4  | 6738.2  |
| 37.5° | 6872.3 | 6835.5 | 6848.5 | 6794.0 | 6579.2 | 6137.8 | 5817.5 | 6427.3  | 7286.4  | 7312.5  |
| 40°   | 7095.3 | 7056.2 | 7108.4 | 7057.4 | 6877.0 | 6572.1 | 6131.9 | 6786.8  | 7920.0  | 7969.8  |
| 42.5° | 7229.4 | 7198.6 | 7285.2 | 7286.4 | 7135.7 | 6938.7 | 6477.2 | 7183.1  | 8653.2  | 8764.8  |
| 45°   | 7275.7 | 7265.0 | 7395.5 | 7422.8 | 7364.7 | 7151.1 | 6788.0 | 7615.0  | 9443.4  | 9642.8  |
| 47.5° | 7225.9 | 7205.7 | 7386.0 | 7486.9 | 7533.2 | 7250.8 | 7045.5 | 8082.5  | 10250.3 | 10542.2 |
| 50°   | 6974.3 | 6935.2 | 7203.3 | 7415.7 | 7580.6 | 7316.0 | 7305.3 | 8622.4  | 11167.4 | 11486.6 |
| 52.5° | 6522.3 | 6492.6 | 6797.5 | 7166.5 | 7476.2 | 7348.1 | 7597.2 | 9212.1  | 12038.3 | 12451.2 |
| 55°   | 5944.4 | 5905.3 | 6241.0 | 6722.8 | 7216.4 | 7337.4 | 7889.1 | 9871.8  | 13065.9 | 13484.7 |
| 57.5° | 5028.4 | 4950.1 | 5374.9 | 5944.4 | 6792.8 | 7324.3 | 8192.9 | 10527.9 | 14110.0 | 14611.9 |
| 60°   | 3692.4 | 3576.1 | 4097.0 | 4772.1 | 5964.6 | 7197.4 | 8569.0 | 11263.6 | 15362.9 | 15815.0 |
| 62.5° | 2150.0 | 2082.3 | 2422.9 | 3052.9 | 4495.7 | 6449.9 | 8780.2 | 12119.0 | 16594.5 | 17069.2 |
| 65°   | 1669.4 | 1650.4 | 1680.1 | 1728.7 | 2502.4 | 4829.1 | 8128.8 | 12953.1 | 18160.7 | 18493.0 |
| 67.5° | 1527.0 | 1512.8 | 1525.9 | 1434.5 | 1269.6 | 2689.8 | 6430.9 | 13164.3 | 19838.5 | 20040.2 |
| 70°   | 1357.4 | 1340.8 | 1383.5 | 1305.2 | 999.0  | 1223.3 | 4155.2 | 12397.9 | 21173.3 | 21551.8 |
| 72.5° | 1105.8 | 1086.8 | 1186.5 | 1150.9 | 841.2  | 785.5  | 2087.1 | 10576.6 | 21033.3 | 21818.8 |
| 75°   | 849.5  | 838.9  | 957.5  | 987.2  | 685.8  | 618.2  | 1001.4 | 7861.8  | 18509.6 | 19301.0 |
| 77.5° | 659.7  | 651.4  | 711.9  | 819.9  | 552.9  | 479.4  | 615.8  | 4986.9  | 13948.6 | 14087.4 |
| 80°   | 494.8  | 471.0  | 526.8  | 634.8  | 430.7  | 350.0  | 417.7  | 2908.1  | 8817.0  | 7992.3  |
| 82.5° | 309.7  | 297.8  | 344.1  | 423.6  | 303.7  | 240.9  | 271.7  | 1606.5  | 3533.4  | 2081.1  |
| 85°   | 176.8  | 172.0  | 187.5  | 242.0  | 164.9  | 138.8  | 155.4  | 709.5   | 645.5   | 443.8   |
| 87.5° | 71.2   | 68.8   | 85.4   | 108.0  | 60.5   | 51.0   | 54.6   | 170.9   | 142.4   | 131.7   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4502.8  | 0°    | 4502.8  | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 | 4502.8 |
| 4520.6  | 2.5°  | 4515.9  | 4515.9 | 4499.3 | 4473.1 | 4443.5 | 4424.5 | 4393.7 | 4385.3 | 4353.3 | 4343.8 |
| 4560.9  | 5°    | 4570.4  | 4560.9 | 4509.9 | 4436.4 | 4335.5 | 4243.0 | 4140.9 | 4076.9 | 3986.7 | 3954.6 |
| 4640.4  | 7.5°  | 4639.3  | 4613.2 | 4525.4 | 4364.0 | 4152.8 | 3945.1 | 3729.2 | 3565.5 | 3408.8 | 3353.1 |
| 4705.7  | 10°   | 4702.1  | 4665.4 | 4515.9 | 4233.5 | 3868.0 | 3508.5 | 3164.4 | 2923.6 | 2740.8 | 2666.1 |
| 4778.1  | 12.5° | 4765.0  | 4697.4 | 4453.0 | 4016.3 | 3463.4 | 2975.8 | 2609.1 | 2421.7 | 2309.0 | 2218.8 |
| 4837.4  | 15°   | 4824.4  | 4729.4 | 4355.7 | 3725.6 | 3019.7 | 2524.9 | 2254.4 | 2104.9 | 2014.7 | 1955.4 |
| 4924.0  | 17.5° | 4893.2  | 4756.7 | 4209.7 | 3356.6 | 2597.3 | 2212.8 | 1992.2 | 1902.0 | 1884.2 | 1877.1 |
| 5042.7  | 20°   | 4989.3  | 4781.6 | 4017.5 | 2943.7 | 2286.4 | 1963.7 | 1849.8 | 1841.5 | 1840.3 | 1836.7 |
| 5185.1  | 22.5° | 5092.5  | 4811.3 | 3763.6 | 2568.8 | 2021.8 | 1808.2 | 1788.1 | 1771.5 | 1760.8 | 1759.6 |
| 5357.1  | 25°   | 5214.7  | 4820.8 | 3445.6 | 2261.5 | 1796.4 | 1734.7 | 1710.9 | 1686.0 | 1678.9 | 1678.9 |
| 5552.9  | 27.5° | 5333.4  | 4788.8 | 3075.4 | 1994.5 | 1669.4 | 1667.0 | 1636.2 | 1627.9 | 1626.7 | 1630.3 |
| 5775.9  | 30°   | 5452.0  | 4728.2 | 2707.6 | 1747.7 | 1595.9 | 1595.9 | 1585.2 | 1591.1 | 1595.9 | 1607.7 |
| 6082.1  | 32.5° | 5612.2  | 4664.2 | 2400.3 | 1565.0 | 1531.8 | 1519.9 | 1530.6 | 1542.5 | 1547.2 | 1562.6 |
| 6484.3  | 35°   | 5847.1  | 4619.1 | 2155.9 | 1465.3 | 1465.3 | 1449.9 | 1455.8 | 1453.5 | 1442.8 | 1435.7 |
| 6970.8  | 37.5° | 6158.0  | 4616.7 | 1954.2 | 1419.1 | 1409.6 | 1407.2 | 1408.4 | 1393.0 | 1351.4 | 1301.6 |
| 7559.3  | 40°   | 6531.7  | 4680.8 | 1798.8 | 1387.0 | 1379.9 | 1394.2 | 1387.0 | 1345.5 | 1231.6 | 1145.0 |
| 8283.0  | 42.5° | 7033.6  | 4863.5 | 1699.1 | 1347.9 | 1369.2 | 1387.0 | 1358.6 | 1215.0 | 1137.9 | 1079.7 |
| 9107.7  | 45°   | 7624.5  | 5160.1 | 1648.1 | 1306.3 | 1349.1 | 1370.4 | 1232.8 | 1169.9 | 1108.2 | 1038.2 |
| 10007.0 | 47.5° | 8293.7  | 5533.9 | 1636.2 | 1267.2 | 1304.0 | 1317.0 | 1179.4 | 1150.9 | 1080.9 | 1005.0 |
| 10911.2 | 50°   | 9022.2  | 5976.5 | 1668.2 | 1220.9 | 1238.7 | 1193.6 | 1161.6 | 1135.5 | 1063.1 | 988.4  |
| 11837.8 | 52.5° | 9775.7  | 6464.1 | 1732.3 | 1158.0 | 1173.5 | 1123.6 | 1154.5 | 1131.9 | 1052.4 | 951.6  |
| 12795.3 | 55°   | 10516.0 | 6955.3 | 1794.0 | 1084.5 | 1107.0 | 1060.7 | 1134.3 | 1117.7 | 1003.8 | 889.9  |
| 13816.9 | 57.5° | 11268.3 | 7444.2 | 1854.5 | 1019.2 | 1042.9 | 1000.2 | 1102.3 | 1079.7 | 949.2  | 832.9  |
| 14932.2 | 60°   | 12050.2 | 7918.8 | 1883.0 | 956.3  | 972.9  | 944.5  | 1053.6 | 1014.5 | 887.5  | 774.8  |
| 16028.6 | 62.5° | 12782.3 | 8313.9 | 1836.7 | 893.4  | 904.1  | 892.3  | 989.6  | 937.3  | 825.8  | 709.5  |
| 17171.2 | 65°   | 13516.7 | 8548.8 | 1694.3 | 831.7  | 834.1  | 828.2  | 899.4  | 854.3  | 753.4  | 652.6  |
| 18171.4 | 67.5° | 14182.4 | 8680.5 | 1467.7 | 765.3  | 759.4  | 757.0  | 815.1  | 764.1  | 683.4  | 595.6  |
| 18932.0 | 70°   | 14323.6 | 8345.9 | 1121.3 | 687.0  | 687.0  | 681.1  | 722.6  | 670.4  | 606.3  | 535.1  |
| 18387.4 | 72.5° | 13082.5 | 7020.6 | 796.1  | 598.0  | 607.5  | 595.6  | 630.0  | 586.1  | 528.0  | 480.5  |
| 15847.0 | 75°   | 10549.3 | 5148.3 | 579.0  | 506.6  | 523.3  | 503.1  | 535.1  | 504.3  | 454.4  | 453.2  |
| 10920.6 | 77.5° | 7248.4  | 3183.4 | 420.0  | 417.7  | 429.5  | 403.4  | 440.2  | 423.6  | 378.5  | 358.3  |
| 4753.2  | 80°   | 3093.2  | 1269.6 | 306.1  | 322.7  | 322.7  | 299.0  | 341.7  | 346.5  | 307.3  | 297.8  |
| 917.2   | 82.5° | 615.8   | 360.7  | 214.8  | 221.9  | 208.8  | 201.7  | 242.0  | 268.2  | 370.2  | 411.7  |
| 276.5   | 85°   | 185.1   | 132.9  | 129.3  | 121.0  | 106.8  | 108.0  | 142.4  | 269.3  | 332.2  | 189.8  |
| 91.4    | 87.5° | 51.0    | 33.2   | 34.4   | 27.3   | 22.5   | 29.7   | 48.6   | 204.1  | 111.5  | 47.5   |
| 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> |
|-------------|
| 4502.8      |
| 4359.2      |
| 3978.4      |
| 3360.2      |
| 2682.7      |
| 2248.4      |
| 1966.0      |
| 1881.8      |
| 1848.6      |
| 1772.6      |
| 1686.0      |
| 1639.8      |
| 1616.0      |
| 1575.7      |
| 1452.3      |
| 1302.8      |
| 1142.6      |
| 1077.4      |
| 1033.5      |
| 999.0       |
| 980.1       |
| 944.5       |
| 884.0       |
| 830.6       |
| 771.2       |
| 708.3       |
| 645.5       |
| 588.5       |
| 532.7       |
| 466.3       |
| 408.2       |
| 335.8       |
| 297.8       |
| 412.9       |
| 163.7       |
| 40.3        |
| 0.0         |

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