

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: P951462

Luminaire Tested: **GALN-SB5C-835-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-835-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

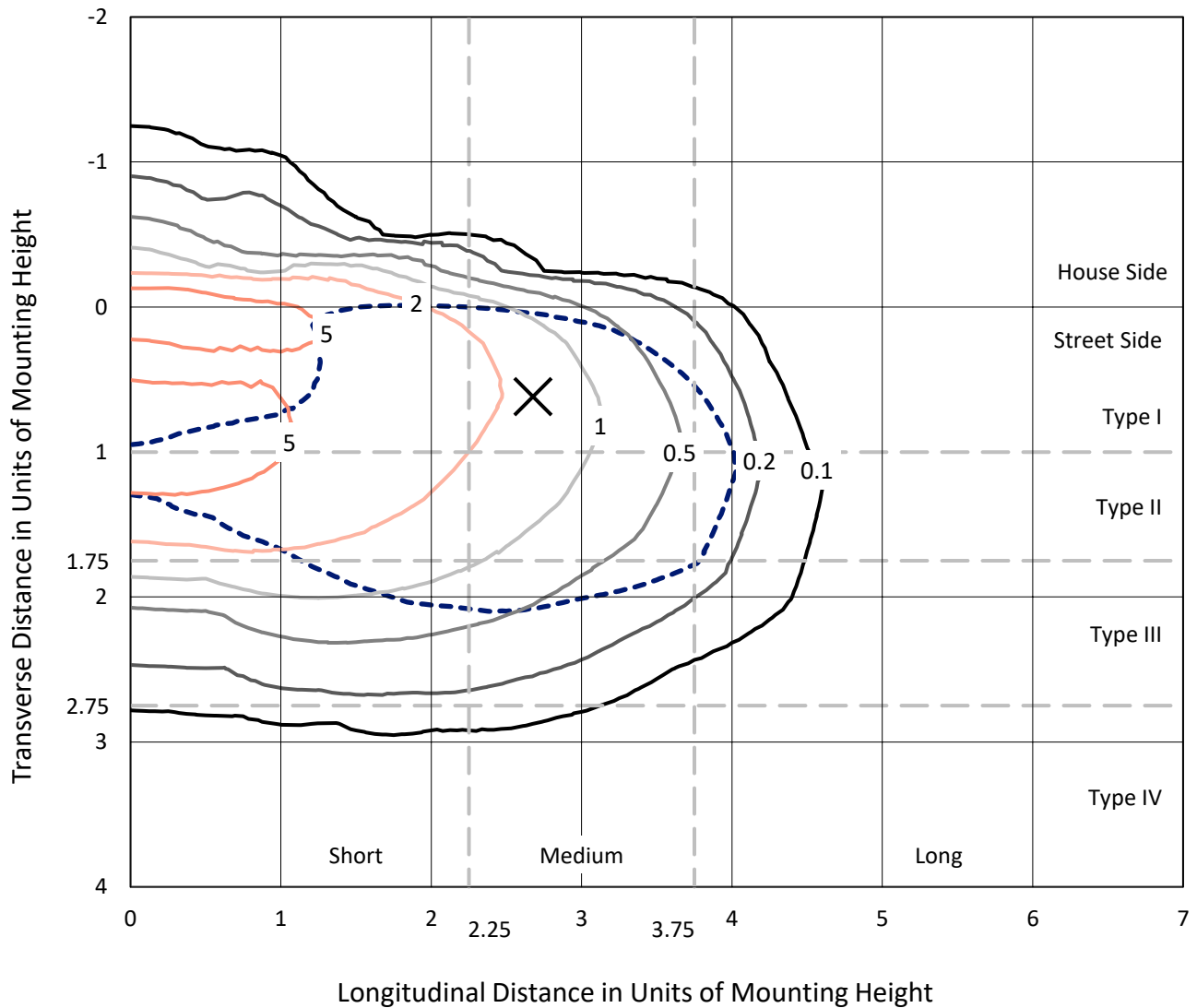
Lumens per Lamp: N/A  
Luminaire Lumens: 29213 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): 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

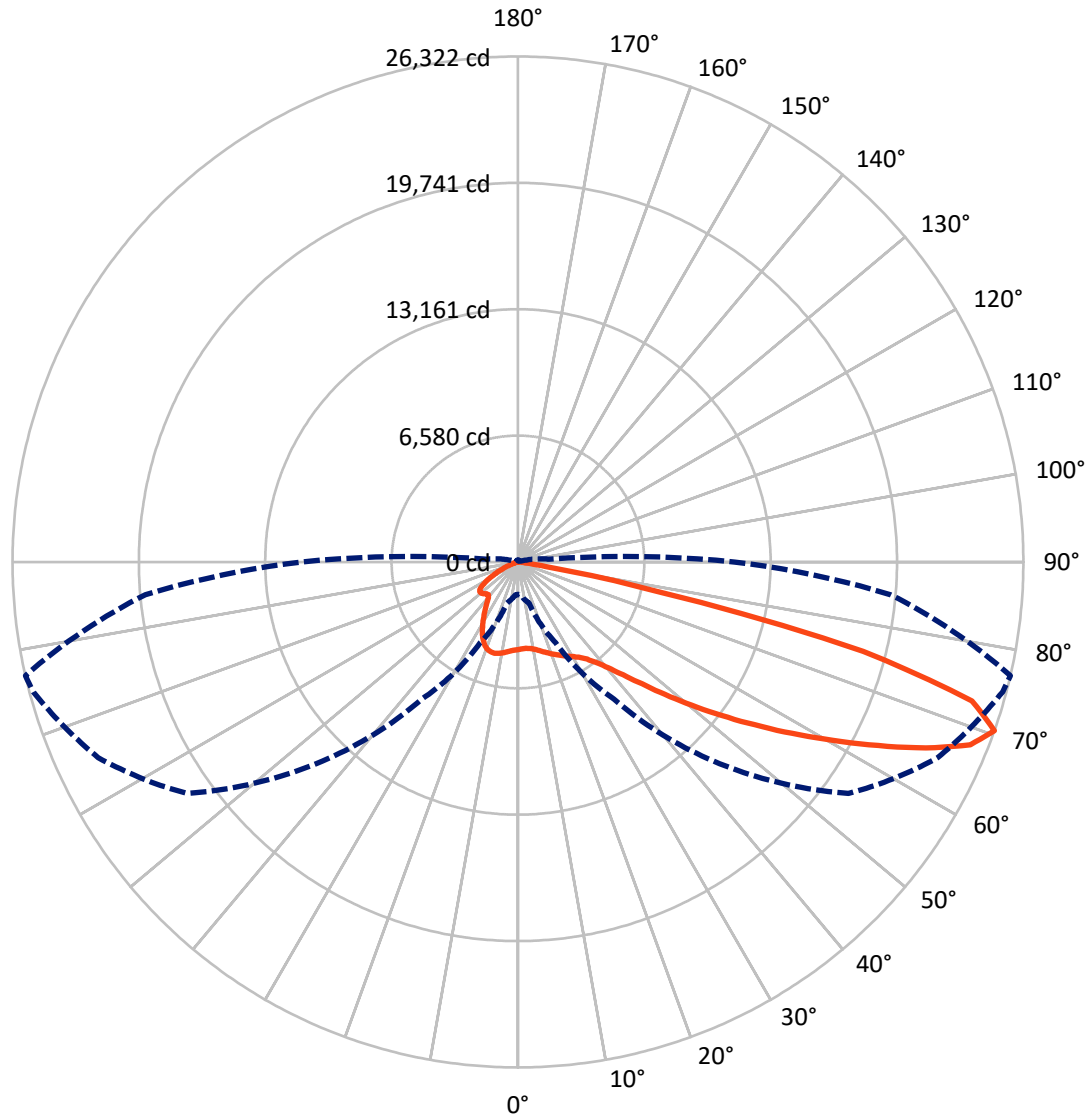
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3079.5   | 0.0    | 3079.5  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 26133.5  | 0.0    | 26133.5 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 29213.0  | 0.0    | 29213.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 392.7   | 1.3       |
| 10°-20°   | 932.3   | 3.2       |
| 20°-30°   | 1442.0  | 4.9       |
| 30°-40°   | 2616.5  | 9.0       |
| 40°-50°   | 4939.0  | 16.9      |
| 50°-60°   | 7136.4  | 24.4      |
| 60°-70°   | 7596.5  | 26.0      |
| 70°-80°   | 4025.6  | 13.8      |
| 80°-90°   | 132.2   | 0.5       |
| 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°    | 29213.0 | 100.0     |
| 0°-180°   | 29213.0 | 100.0     |

**Coefficient of Utilization**



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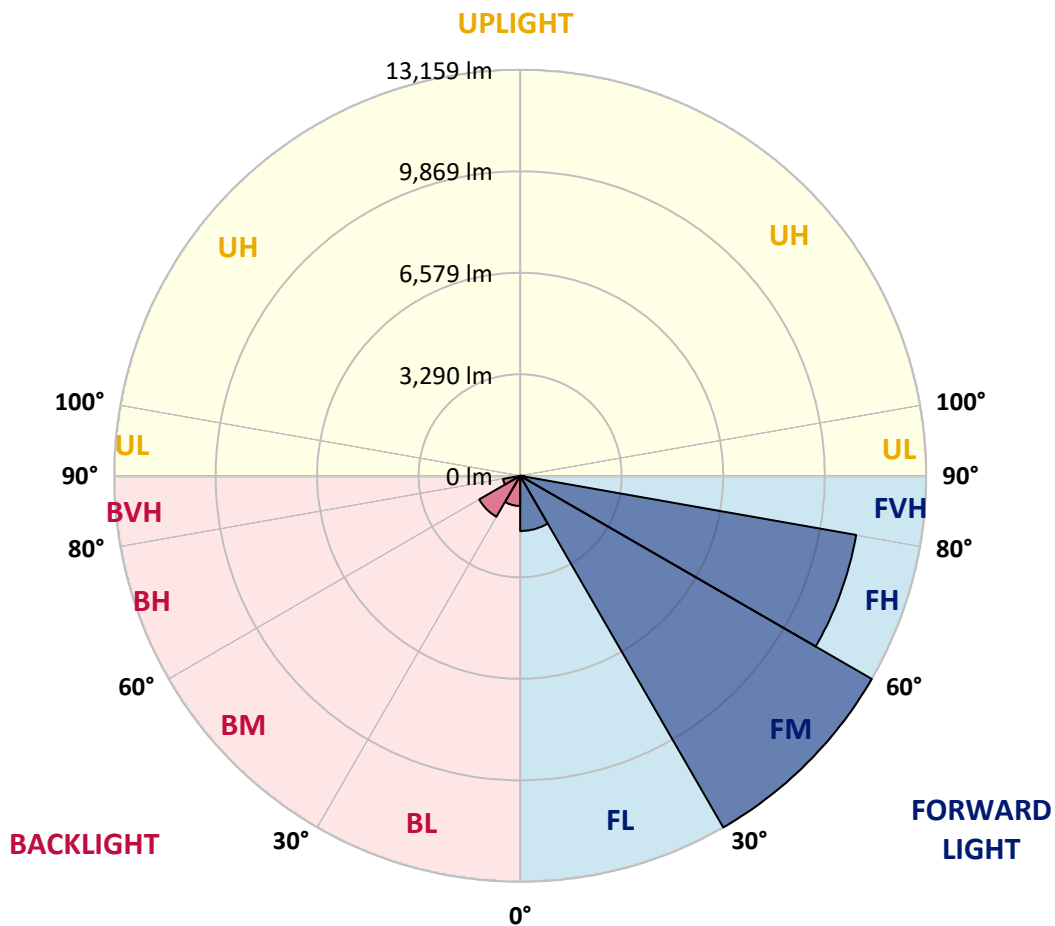
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1788.5  | 6.1       |                         |      |          |
| FM (30°-60°)   | 13158.8 | 45.0      |                         |      |          |
| FH (60°-80°)   | 11057.5 | 37.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 128.6   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 978.4   | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 1533.0  | 5.2       | B2/2500                 |      |          |
| BH (60°-80°)   | 564.5   | 1.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 3.6     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  | 4556.7  |
| 2.5°  | 4278.1  | 4316.9  | 4311.3  | 4337.2  | 4346.4  | 4383.3  | 4420.2  | 4470.0  | 4525.3  | 4523.5  |
| 5°    | 4036.5  | 4075.2  | 4084.4  | 4119.5  | 4163.8  | 4220.9  | 4296.6  | 4396.2  | 4499.5  | 4516.1  |
| 7.5°  | 3750.5  | 3791.1  | 3815.1  | 3885.2  | 3966.4  | 4084.4  | 4208.0  | 4353.8  | 4525.3  | 4549.3  |
| 10°   | 3464.6  | 3501.5  | 3532.8  | 3632.4  | 3761.6  | 3936.8  | 4137.9  | 4348.2  | 4578.8  | 4613.9  |
| 12.5° | 3287.5  | 3322.5  | 3357.6  | 3444.3  | 3604.8  | 3818.8  | 4091.8  | 4374.1  | 4667.4  | 4717.2  |
| 15°   | 3224.7  | 3256.1  | 3283.8  | 3361.3  | 3510.7  | 3754.2  | 4082.6  | 4427.6  | 4779.9  | 4846.3  |
| 17.5° | 3234.0  | 3250.6  | 3269.0  | 3328.1  | 3473.8  | 3724.7  | 4099.2  | 4519.8  | 4912.8  | 4971.8  |
| 20°   | 3287.5  | 3296.7  | 3298.5  | 3339.1  | 3468.3  | 3721.0  | 4132.4  | 4608.4  | 5038.2  | 5117.5  |
| 22.5° | 3355.7  | 3359.4  | 3355.7  | 3383.4  | 3503.3  | 3748.7  | 4176.7  | 4715.4  | 5178.4  | 5252.2  |
| 25°   | 3674.9  | 3604.8  | 3516.2  | 3462.7  | 3562.3  | 3802.2  | 4243.1  | 4859.3  | 5331.5  | 5403.5  |
| 27.5° | 4665.5  | 4464.5  | 4147.2  | 3791.1  | 3684.1  | 3879.7  | 4335.3  | 5005.0  | 5486.5  | 5551.1  |
| 30°   | 6274.2  | 6010.4  | 5471.7  | 4669.2  | 4075.2  | 4042.0  | 4455.2  | 5150.7  | 5650.7  | 5720.8  |
| 32.5° | 7886.6  | 7822.0  | 7200.3  | 6089.7  | 4955.2  | 4403.6  | 4654.5  | 5348.1  | 5868.4  | 5923.7  |
| 35°   | 9517.4  | 9386.4  | 8877.3  | 7779.6  | 6311.1  | 5139.7  | 4986.5  | 5606.4  | 6154.3  | 6217.0  |
| 37.5° | 10766.4 | 10687.0 | 10371.6 | 9467.6  | 7919.8  | 6276.1  | 5554.7  | 6006.7  | 6569.4  | 6639.5  |
| 40°   | 11869.6 | 11832.7 | 11725.7 | 11129.8 | 9718.5  | 7763.0  | 6438.4  | 6626.6  | 7145.0  | 7228.0  |
| 42.5° | 12736.6 | 12823.3 | 12884.2 | 12718.2 | 11572.5 | 9460.2  | 7626.5  | 7497.3  | 7947.5  | 8032.3  |
| 45°   | 13624.0 | 13653.5 | 13898.9 | 14138.7 | 13413.7 | 11234.9 | 8965.8  | 8517.5  | 8945.5  | 9050.7  |
| 47.5° | 14194.0 | 14312.1 | 14743.8 | 15166.2 | 14961.5 | 12994.9 | 10404.8 | 9722.2  | 10102.2 | 10299.6 |
| 50°   | 14236.5 | 14459.7 | 15053.7 | 15789.8 | 16088.7 | 14670.0 | 11969.2 | 11094.7 | 11498.8 | 11716.4 |
| 52.5° | 13529.9 | 13876.7 | 14797.3 | 15874.7 | 16697.4 | 16088.7 | 13587.1 | 12467.3 | 12985.7 | 13269.8 |
| 55°   | 10373.4 | 10827.2 | 13832.4 | 15413.5 | 16721.4 | 17164.2 | 15162.6 | 13897.0 | 14642.3 | 14963.3 |
| 57.5° | 9037.8  | 9266.5  | 10875.2 | 14612.8 | 16276.8 | 17597.7 | 16586.8 | 15258.5 | 16444.7 | 16843.2 |
| 60°   | 7519.5  | 7820.2  | 9120.8  | 13303.0 | 15673.6 | 17640.1 | 17844.9 | 17014.8 | 18398.4 | 18846.7 |
| 62.5° | 5110.1  | 5436.7  | 6729.9  | 11052.3 | 14848.9 | 17619.9 | 18876.2 | 18822.7 | 20569.7 | 21051.2 |
| 65°   | 3165.7  | 3370.5  | 4222.8  | 9024.8  | 13695.9 | 17642.0 | 19955.4 | 21018.0 | 22861.0 | 23349.9 |
| 67.5° | 2501.6  | 2595.7  | 3040.3  | 6929.1  | 11709.1 | 17143.9 | 21032.8 | 23082.4 | 25017.6 | 25405.0 |
| 70°   | 1680.6  | 1737.8  | 2211.9  | 4645.3  | 8711.2  | 14845.3 | 21012.5 | 24119.2 | 26128.2 | 26321.9 |
| 72.5° | 885.5   | 929.8   | 1293.2  | 2151.1  | 5261.4  | 10552.4 | 17712.1 | 22879.4 | 25023.1 | 24731.6 |
| 75°   | 442.8   | 516.5   | 870.8   | 1092.1  | 2247.0  | 5885.0  | 10998.8 | 18038.6 | 19695.3 | 18566.2 |
| 77.5° | 335.8   | 405.9   | 719.5   | 719.5   | 782.2   | 1981.3  | 4658.2  | 9838.4  | 9074.7  | 7556.4  |
| 80°   | 214.0   | 276.7   | 629.1   | 544.2   | 326.5   | 503.6   | 1213.9  | 2756.2  | 1927.8  | 1466.6  |
| 82.5° | 125.4   | 180.8   | 523.9   | 359.7   | 182.6   | 186.3   | 343.1   | 586.7   | 499.9   | 389.3   |
| 85°   | 49.8    | 118.1   | 359.7   | 142.1   | 71.9    | 46.1    | 103.3   | 125.4   | 103.3   | 77.5    |
| 87.5° | 0.0     | 27.7    | 62.7    | 0.0     | 5.5     | 3.7     | 7.4     | 9.2     | 9.2     | 7.4     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 4556.7  | 0°    | 4556.7  | 4556.7 | 4556.7 | 4556.7 | 4556.7 | 4556.7 | 4556.7 | 4556.7 | 4556.7 | 4556.7 |
| 4560.4  | 2.5°  | 4577.0  | 4580.7 | 4591.8 | 4593.6 | 4567.8 | 4534.6 | 4521.6 | 4516.1 | 4494.0 | 4492.1 |
| 4589.9  | 5°    | 4632.3  | 4648.9 | 4632.3 | 4584.4 | 4470.0 | 4309.5 | 4187.7 | 4088.1 | 3997.7 | 3970.0 |
| 4691.4  | 7.5°  | 4743.0  | 4759.6 | 4709.8 | 4521.6 | 4233.9 | 3914.7 | 3626.9 | 3424.0 | 3241.3 | 3173.1 |
| 4815.0  | 10°   | 4901.7  | 4923.8 | 4767.0 | 4387.0 | 3877.8 | 3364.9 | 2877.9 | 2534.8 | 2267.3 | 2158.4 |
| 4982.9  | 12.5° | 5100.9  | 5110.1 | 4798.4 | 4182.2 | 3414.8 | 2682.4 | 1992.4 | 1625.3 | 1387.3 | 1298.8 |
| 5185.8  | 15°   | 5320.5  | 5307.5 | 4802.1 | 3903.6 | 2783.8 | 1896.5 | 1300.6 | 1068.1 | 972.2  | 942.7  |
| 5388.7  | 17.5° | 5551.1  | 5497.6 | 4728.3 | 3501.5 | 2092.0 | 1296.9 | 964.8  | 909.5  | 892.9  | 885.5  |
| 5589.8  | 20°   | 5778.0  | 5658.1 | 4593.6 | 2975.7 | 1501.7 | 968.5  | 876.3  | 859.7  | 850.5  | 846.8  |
| 5792.7  | 22.5° | 5984.6  | 5779.8 | 4363.0 | 2365.1 | 1090.3 | 856.0  | 828.3  | 813.6  | 797.0  | 789.6  |
| 5990.1  | 25°   | 6185.7  | 5849.9 | 4038.3 | 1795.0 | 872.6  | 800.7  | 778.5  | 750.8  | 728.7  | 719.5  |
| 6202.3  | 27.5° | 6381.2  | 5894.2 | 3632.4 | 1328.3 | 778.5  | 749.0  | 708.4  | 669.7  | 653.1  | 649.4  |
| 6429.2  | 30°   | 6589.7  | 5909.0 | 3171.2 | 990.7  | 721.3  | 684.4  | 625.4  | 581.1  | 571.9  | 573.7  |
| 6735.4  | 32.5° | 6844.3  | 5931.1 | 2706.3 | 811.7  | 673.4  | 606.9  | 536.8  | 490.7  | 483.3  | 490.7  |
| 7181.9  | 35°   | 7148.7  | 5975.4 | 2258.1 | 747.2  | 630.9  | 527.6  | 452.0  | 413.2  | 405.9  | 411.4  |
| 7753.8  | 37.5° | 7561.9  | 6047.3 | 1839.3 | 734.2  | 595.9  | 461.2  | 380.0  | 348.7  | 348.7  | 350.5  |
| 8454.8  | 40°   | 8111.7  | 6239.2 | 1464.8 | 725.0  | 577.4  | 411.4  | 321.0  | 308.1  | 313.6  | 317.3  |
| 9347.7  | 42.5° | 8781.3  | 6646.9 | 1212.0 | 713.9  | 557.1  | 389.3  | 291.5  | 285.9  | 295.2  | 298.9  |
| 10417.7 | 45°   | 9532.2  | 7163.4 | 1123.5 | 695.5  | 538.7  | 404.0  | 278.6  | 271.2  | 282.3  | 284.1  |
| 11616.8 | 47.5° | 10308.8 | 7668.9 | 1112.4 | 675.2  | 520.2  | 426.2  | 274.9  | 258.3  | 271.2  | 273.0  |
| 12897.1 | 50°   | 11094.7 | 7999.1 | 1123.5 | 643.8  | 490.7  | 426.2  | 276.7  | 245.4  | 256.4  | 262.0  |
| 14225.4 | 52.5° | 11886.2 | 8150.4 | 1116.1 | 575.6  | 439.1  | 400.3  | 276.7  | 234.3  | 245.4  | 249.1  |
| 15660.7 | 55°   | 12653.6 | 8120.9 | 1003.6 | 474.1  | 372.7  | 354.2  | 269.3  | 225.1  | 232.4  | 234.3  |
| 17016.6 | 57.5° | 13260.6 | 7709.5 | 795.1  | 369.0  | 302.6  | 295.2  | 245.4  | 214.0  | 219.5  | 217.7  |
| 18260.0 | 60°   | 13577.9 | 6805.5 | 568.2  | 284.1  | 238.0  | 232.4  | 215.8  | 199.2  | 202.9  | 193.7  |
| 19313.4 | 62.5° | 13581.5 | 5610.1 | 380.0  | 225.1  | 190.0  | 184.5  | 184.5  | 178.9  | 175.3  | 156.8  |
| 20128.8 | 65°   | 13291.9 | 4283.7 | 252.7  | 178.9  | 153.1  | 143.9  | 155.0  | 153.1  | 140.2  | 114.4  |
| 20377.9 | 67.5° | 12635.2 | 2807.8 | 191.9  | 140.2  | 118.1  | 112.5  | 123.6  | 129.1  | 119.9  | 95.9   |
| 19470.2 | 70°   | 11284.8 | 1634.5 | 158.7  | 108.8  | 88.6   | 83.0   | 99.6   | 110.7  | 99.6   | 77.5   |
| 16642.1 | 72.5° | 9373.5  | 881.8  | 129.1  | 81.2   | 60.9   | 55.3   | 79.3   | 90.4   | 79.3   | 57.2   |
| 10677.8 | 75°   | 6082.4  | 472.3  | 99.6   | 53.5   | 31.4   | 35.1   | 59.0   | 66.4   | 55.3   | 36.9   |
| 3134.3  | 77.5° | 2042.2  | 208.5  | 62.7   | 25.8   | 14.8   | 14.8   | 35.1   | 40.6   | 25.8   | 12.9   |
| 570.0   | 80°   | 455.7   | 86.7   | 25.8   | 11.1   | 5.5    | 5.5    | 7.4    | 7.4    | 3.7    | 0.0    |
| 175.3   | 82.5° | 149.4   | 35.1   | 11.1   | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 44.3    | 85°   | 57.2    | 12.9   | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 14.8    | 87.5° | 22.1    | 1.8    | 0.0    | 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> |
|-------------|
| 4556.7      |
| 4495.8      |
| 3953.4      |
| 3145.4      |
| 2112.3      |
| 1271.1      |
| 942.7       |
| 883.7       |
| 843.1       |
| 787.7       |
| 715.8       |
| 645.7       |
| 573.7       |
| 488.9       |
| 409.5       |
| 348.7       |
| 317.3       |
| 298.9       |
| 285.9       |
| 274.9       |
| 263.8       |
| 249.1       |
| 234.3       |
| 217.7       |
| 191.9       |
| 151.3       |
| 110.7       |
| 94.1        |
| 73.8        |
| 55.3        |
| 33.2        |
| 11.1        |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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