

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: P955989

Luminaire Tested: **GALN-SB8D-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB8D-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

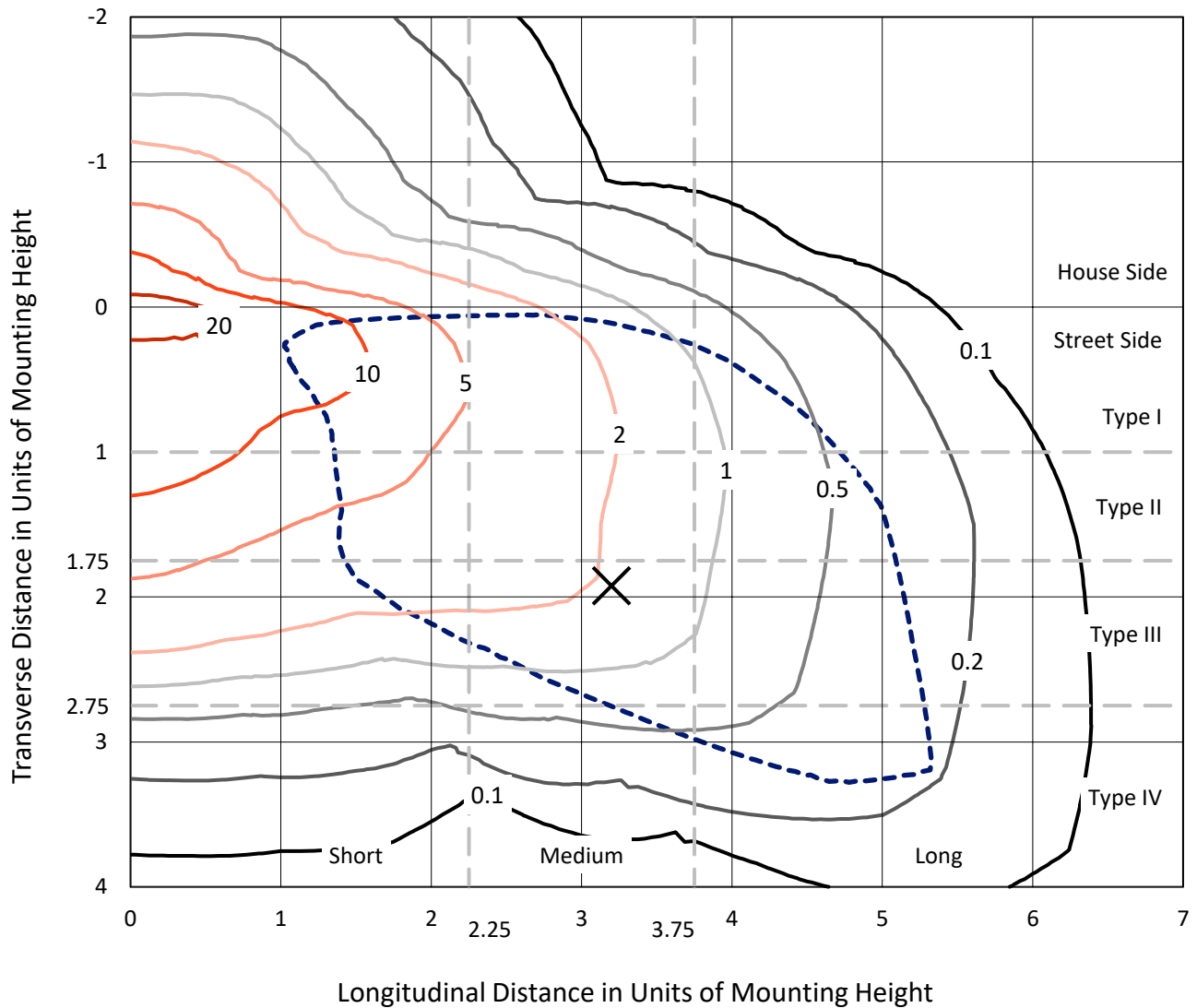
Lumens per Lamp: N/A  
Luminaire Lumens: 85082 lumens  
Efficiency: N/A  
Efficacy: 145.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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

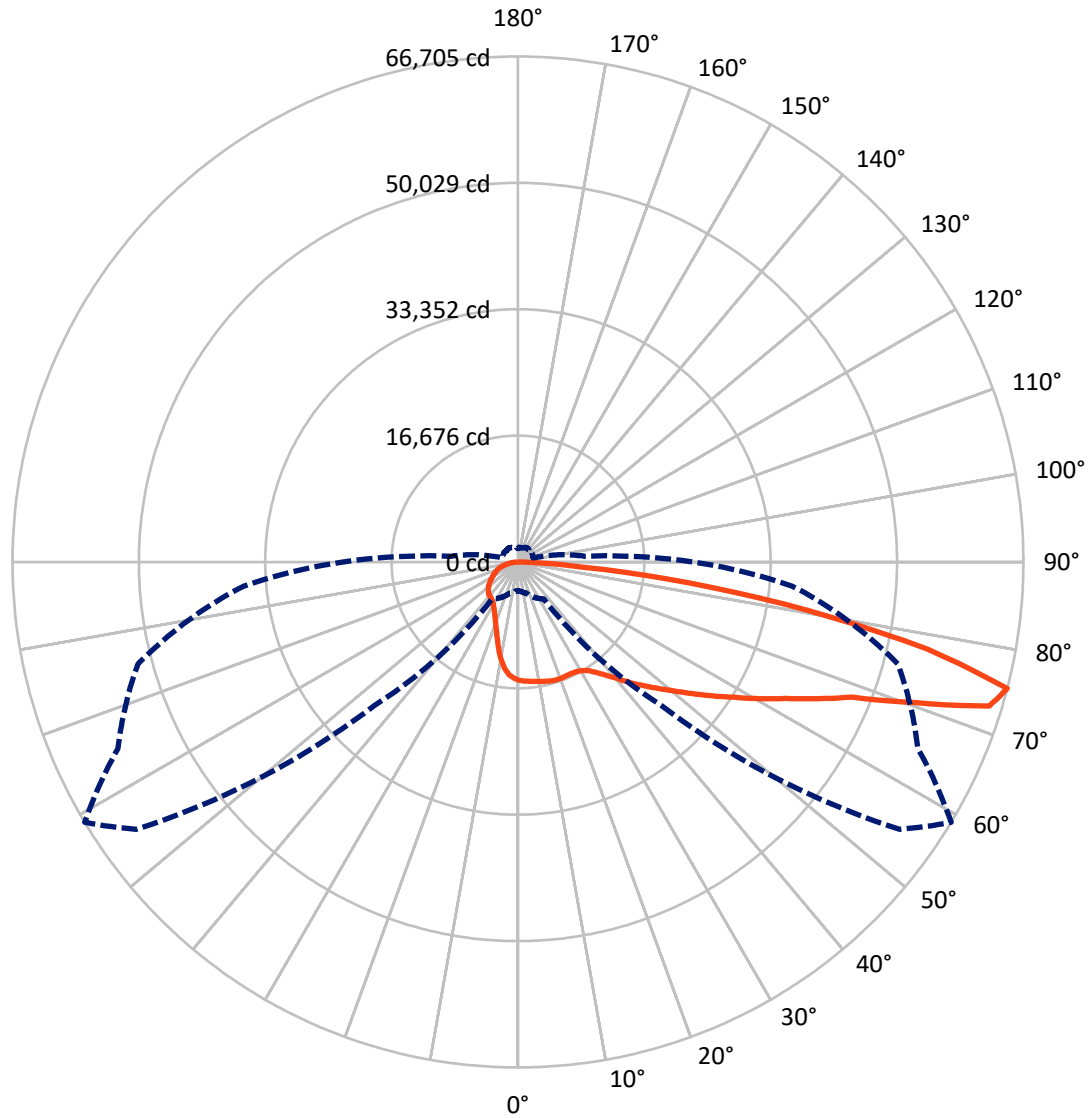
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15957.7  | 0.0    | 15957.7 |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 69124.3  | 0.0    | 69124.3 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 85082.0  | 0.0    | 85082.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1400.3  | 1.6       |
| 10°-20°   | 3579.2  | 4.2       |
| 20°-30°   | 5436.5  | 6.4       |
| 30°-40°   | 8081.3  | 9.5       |
| 40°-50°   | 12018.3 | 14.1      |
| 50°-60°   | 16313.3 | 19.2      |
| 60°-70°   | 19915.9 | 23.4      |
| 70°-80°   | 15629.7 | 18.4      |
| 80°-90°   | 2707.5  | 3.2       |
| 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°    | 85082.0 | 100.0     |
| 0°-180°   | 85082.0 | 100.0     |

**Coefficient of Utilization**



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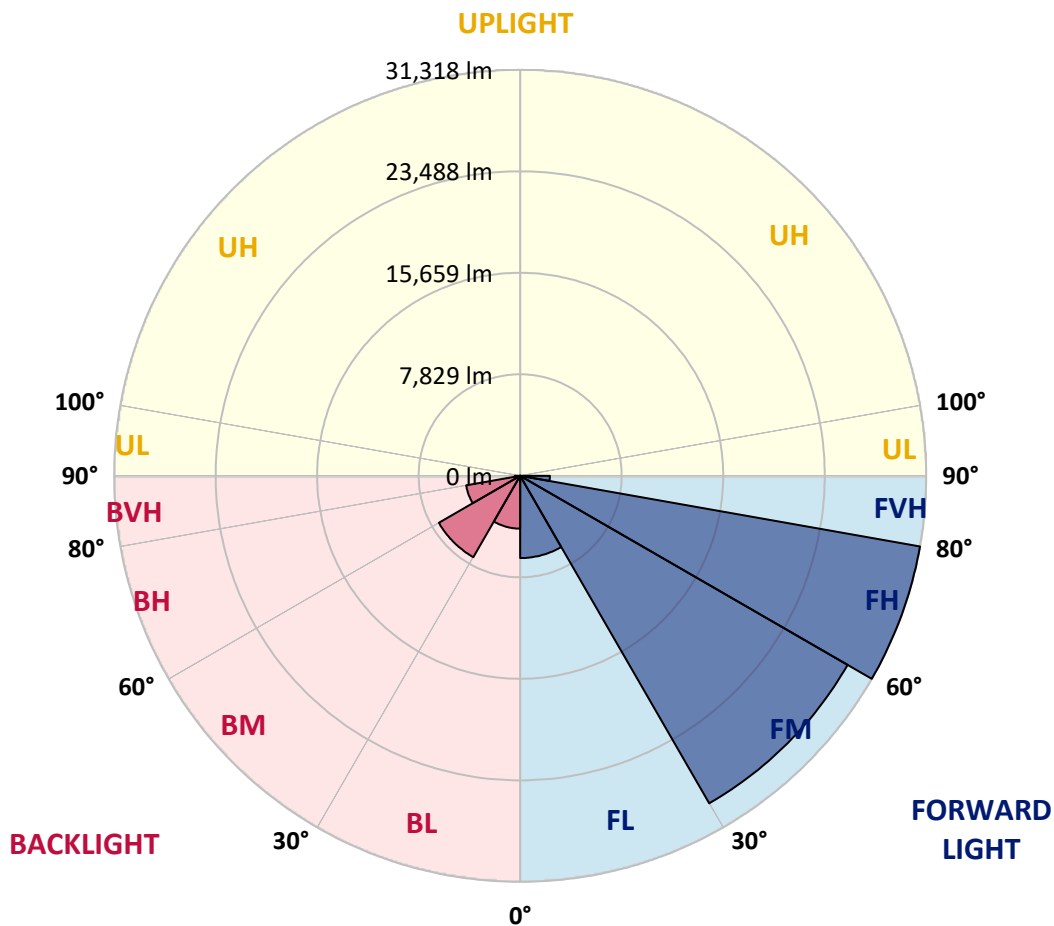
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 6343.8  | 7.5       |                         |      |         |
| FM (30°-60°)   | 29169.6 | 34.3      |                         |      |         |
| FH (60°-80°)   | 31317.8 | 36.8      |                         |      | G5      |
| FVH (80°-90°)  | 2293.0  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 4072.2  | 4.8       | B4/5000                 |      |         |
| BM (30°-60°)   | 7243.2  | 8.5       | B4/8500                 |      |         |
| BH (60°-80°)   | 4227.8  | 5.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 414.4   | 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 IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 |
| 2.5°  | 15749.3 | 15694.4 | 15749.3 | 15726.5 | 15717.3 | 15699.0 | 15703.6 | 15735.6 | 15717.3 | 15740.2 |
| 5°    | 15644.1 | 15612.0 | 15667.0 | 15653.2 | 15712.7 | 15721.9 | 15781.4 | 15818.0 | 15840.9 | 15845.5 |
| 7.5°  | 15470.1 | 15438.1 | 15515.9 | 15580.0 | 15708.2 | 15744.8 | 15868.3 | 15927.8 | 15959.9 | 16014.8 |
| 10°   | 14834.0 | 14820.2 | 15012.5 | 15255.0 | 15557.1 | 15744.8 | 15932.4 | 16033.1 | 16083.5 | 16229.9 |
| 12.5° | 13708.0 | 13726.3 | 13978.1 | 14444.9 | 15049.1 | 15653.2 | 16005.7 | 16152.1 | 16229.9 | 16413.0 |
| 15°   | 12632.4 | 12627.9 | 12902.5 | 13401.4 | 14248.1 | 15250.5 | 16042.3 | 16294.0 | 16426.7 | 16696.8 |
| 17.5° | 12010.0 | 11991.7 | 12183.9 | 12563.8 | 13351.0 | 14632.6 | 15950.7 | 16371.8 | 16655.6 | 16994.3 |
| 20°   | 11895.5 | 11858.9 | 11959.6 | 12147.3 | 12705.7 | 13955.2 | 15712.7 | 16371.8 | 16838.7 | 17278.1 |
| 22.5° | 12312.0 | 12252.5 | 12211.3 | 12188.5 | 12435.6 | 13396.8 | 15442.7 | 16316.9 | 17108.7 | 17685.4 |
| 25°   | 13149.6 | 13058.1 | 12847.5 | 12641.6 | 12568.4 | 13145.0 | 15204.7 | 16303.2 | 17511.5 | 18234.6 |
| 27.5° | 14504.4 | 14390.0 | 13964.3 | 13470.0 | 13026.0 | 13273.2 | 15099.4 | 16385.5 | 17955.4 | 18815.9 |
| 30°   | 16184.2 | 16060.6 | 15525.1 | 14765.3 | 13968.9 | 13749.2 | 15232.1 | 16628.1 | 18523.0 | 19589.4 |
| 32.5° | 17690.0 | 17552.7 | 17095.0 | 16321.5 | 15245.9 | 14573.1 | 15653.2 | 17090.4 | 19415.5 | 20665.0 |
| 35°   | 19026.5 | 18866.3 | 18454.3 | 17740.3 | 16811.2 | 15731.0 | 16413.0 | 17909.7 | 20683.3 | 22413.4 |
| 37.5° | 20335.5 | 20147.8 | 19699.3 | 18944.1 | 18294.1 | 17273.5 | 17461.1 | 18962.4 | 22367.6 | 24537.1 |
| 40°   | 21800.1 | 21530.1 | 20985.4 | 20239.3 | 19607.7 | 19081.4 | 18838.8 | 20253.1 | 24079.4 | 26908.0 |
| 42.5° | 23219.0 | 22962.6 | 22312.7 | 21676.5 | 20884.7 | 20733.7 | 20436.2 | 21763.5 | 25951.4 | 29512.3 |
| 45°   | 24747.7 | 24441.0 | 23653.8 | 22848.2 | 22349.3 | 21832.1 | 21983.2 | 23273.9 | 27786.8 | 32166.9 |
| 47.5° | 26180.3 | 25837.0 | 24907.9 | 24010.8 | 23736.2 | 22756.7 | 23402.0 | 24935.3 | 29695.4 | 34858.2 |
| 50°   | 26953.8 | 26615.1 | 25841.6 | 25031.4 | 24816.3 | 23896.3 | 24939.9 | 26761.5 | 31695.5 | 37540.3 |
| 52.5° | 27599.1 | 27233.0 | 26221.4 | 25772.9 | 25708.8 | 25136.7 | 26834.8 | 28848.6 | 33695.6 | 39911.2 |
| 55°   | 28285.7 | 27878.3 | 26587.6 | 26184.8 | 26477.8 | 26528.1 | 29082.0 | 31214.9 | 35810.2 | 42222.5 |
| 57.5° | 29077.5 | 28560.3 | 26940.0 | 26532.7 | 27228.4 | 28157.5 | 31663.5 | 33668.2 | 37888.1 | 44364.5 |
| 60°   | 29823.5 | 29301.7 | 27617.4 | 27086.5 | 28038.5 | 30047.8 | 34624.8 | 36638.6 | 40240.7 | 46273.1 |
| 62.5° | 29970.0 | 29539.7 | 28157.5 | 28152.9 | 29137.0 | 32253.9 | 38130.7 | 39636.5 | 42295.8 | 48158.8 |
| 65°   | 27434.3 | 27164.3 | 26345.0 | 28111.7 | 30711.4 | 35430.3 | 42034.9 | 43472.0 | 44909.2 | 49806.6 |
| 67.5° | 20880.1 | 20916.7 | 20857.2 | 24267.1 | 29439.1 | 39993.5 | 47687.4 | 47577.6 | 48136.0 | 51655.6 |
| 70°   | 9547.6  | 9762.7  | 11163.2 | 16751.7 | 23585.1 | 40519.9 | 57033.6 | 55610.1 | 52186.6 | 54049.4 |
| 72.5° | 5158.2  | 5323.0  | 5895.1  | 8115.0  | 14179.4 | 36025.3 | 64018.0 | 65029.5 | 57573.7 | 55660.5 |
| 75°   | 3785.2  | 3876.7  | 4274.9  | 5158.2  | 5954.6  | 26775.3 | 61514.4 | 66704.7 | 58246.5 | 51902.8 |
| 77.5° | 2833.1  | 2874.3  | 3199.3  | 4087.2  | 3048.3  | 14115.4 | 49152.0 | 55244.0 | 49861.5 | 42643.6 |
| 80°   | 2055.1  | 2100.8  | 2343.4  | 3066.6  | 2137.4  | 5162.8  | 33750.6 | 38776.1 | 34148.8 | 27182.6 |
| 82.5° | 1418.9  | 1437.2  | 1542.4  | 2087.1  | 1492.1  | 2004.7  | 19150.0 | 22738.4 | 19063.1 | 9538.4  |
| 85°   | 855.9   | 878.8   | 924.5   | 1217.5  | 846.7   | 952.0   | 8266.0  | 8549.8  | 5698.3  | 2279.3  |
| 87.5° | 352.4   | 375.3   | 411.9   | 512.6   | 334.1   | 265.5   | 1363.9  | 1711.8  | 1066.4  | 668.2   |
| 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°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 15616.6 | 0°    | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 | 15616.6 |
| 15662.4 | 2.5°  | 15639.5 | 15607.5 | 15520.5 | 15401.5 | 15291.6 | 15154.3 | 15094.8 | 15044.5 | 14998.7 | 14911.8 |
| 15786.0 | 5°    | 15735.6 | 15648.7 | 15415.2 | 15113.1 | 14769.9 | 14394.6 | 14028.4 | 13776.7 | 13561.6 | 13401.4 |
| 15927.8 | 7.5°  | 15882.1 | 15717.3 | 15291.6 | 14673.8 | 13886.5 | 13081.0 | 12353.2 | 11836.0 | 11447.0 | 11305.1 |
| 16129.2 | 10°   | 16033.1 | 15836.3 | 15094.8 | 14005.5 | 12646.2 | 11405.8 | 10440.1 | 9909.1  | 9597.9  | 9497.2  |
| 16367.2 | 12.5° | 16211.6 | 15923.3 | 14788.2 | 13076.4 | 11259.3 | 9900.0  | 9057.8  | 8746.6  | 8586.4  | 8531.5  |
| 16660.2 | 15°   | 16472.5 | 15996.5 | 14325.9 | 11913.8 | 9936.6  | 8801.5  | 8256.8  | 8041.7  | 7959.3  | 7954.8  |
| 16962.2 | 17.5° | 16669.3 | 16010.2 | 13607.3 | 10668.9 | 8920.5  | 8137.8  | 7689.3  | 7606.9  | 7661.8  | 7744.2  |
| 17259.7 | 20°   | 16889.0 | 15886.7 | 12664.5 | 9533.8  | 8206.5  | 7556.6  | 7368.9  | 7423.8  | 7556.6  | 7675.6  |
| 17653.4 | 22.5° | 17044.6 | 15662.4 | 11524.8 | 8650.5  | 7588.6  | 7222.5  | 7213.3  | 7327.7  | 7401.0  | 7460.5  |
| 18115.6 | 25°   | 17181.9 | 15282.5 | 10316.5 | 7909.0  | 7080.6  | 7021.1  | 7121.8  | 7085.1  | 7034.8  | 7085.1  |
| 18577.9 | 27.5° | 17282.6 | 14682.9 | 9236.3  | 7259.1  | 6723.6  | 6883.8  | 6824.3  | 6741.9  | 6737.3  | 6764.8  |
| 19122.6 | 30°   | 17250.6 | 13881.9 | 8348.4  | 6641.2  | 6471.8  | 6627.4  | 6485.6  | 6471.8  | 6458.1  | 6471.8  |
| 19941.8 | 32.5° | 17250.6 | 12971.1 | 7666.4  | 6215.5  | 6311.6  | 6252.1  | 6238.4  | 6206.4  | 6151.4  | 6146.9  |
| 21054.0 | 35°   | 17346.7 | 12060.3 | 7080.6  | 5986.7  | 6178.9  | 6037.0  | 6046.2  | 5968.4  | 5853.9  | 5799.0  |
| 22527.8 | 37.5° | 17543.5 | 11328.0 | 6499.3  | 5876.8  | 5945.5  | 5940.9  | 5904.3  | 5771.6  | 5570.2  | 5396.2  |
| 24367.8 | 40°   | 18019.5 | 11112.9 | 6101.1  | 5826.5  | 5835.6  | 5890.6  | 5794.4  | 5538.1  | 5080.4  | 4796.7  |
| 26235.2 | 42.5° | 18765.6 | 11474.5 | 6014.1  | 5702.9  | 5762.4  | 5817.3  | 5629.7  | 5034.7  | 4709.7  | 4540.4  |
| 28194.1 | 45°   | 19713.0 | 12106.1 | 6201.8  | 5524.4  | 5588.5  | 5684.6  | 5126.2  | 4842.4  | 4696.0  | 4700.5  |
| 30134.8 | 47.5° | 20912.2 | 12769.7 | 6549.6  | 5368.8  | 5336.7  | 5391.7  | 4792.1  | 4618.2  | 4416.8  | 4467.1  |
| 31997.6 | 50°   | 22299.0 | 13442.6 | 6879.2  | 5158.2  | 5057.5  | 4879.0  | 4577.0  | 4412.2  | 4155.9  | 4036.9  |
| 33796.3 | 52.5° | 23800.2 | 14092.5 | 7011.9  | 4901.9  | 4755.5  | 4549.5  | 4430.5  | 4229.1  | 3917.9  | 3721.1  |
| 35494.4 | 55°   | 25223.7 | 14682.9 | 6865.5  | 4595.3  | 4453.4  | 4293.2  | 4274.9  | 4151.3  | 3817.2  | 3542.6  |
| 37004.8 | 57.5° | 26569.3 | 15177.2 | 6499.3  | 4284.0  | 4146.7  | 4050.6  | 4174.2  | 4114.7  | 3693.6  | 3341.2  |
| 38432.8 | 60°   | 27709.0 | 15515.9 | 5968.4  | 3968.2  | 3872.1  | 3821.8  | 4009.4  | 3991.1  | 3519.7  | 3126.1  |
| 39714.3 | 62.5° | 28615.2 | 15648.7 | 5382.5  | 3666.2  | 3643.3  | 3551.7  | 3780.6  | 3780.6  | 3300.0  | 2915.5  |
| 40840.3 | 65°   | 29324.6 | 15520.5 | 4787.5  | 3368.6  | 3414.4  | 3277.1  | 3501.4  | 3473.9  | 3066.6  | 2727.9  |
| 42135.6 | 67.5° | 29951.7 | 15099.4 | 4128.4  | 3075.7  | 3181.0  | 3007.1  | 3208.5  | 3144.4  | 2810.3  | 2540.2  |
| 43256.9 | 70°   | 30230.9 | 14119.9 | 3377.8  | 2782.8  | 2911.0  | 2741.6  | 2915.5  | 2796.5  | 2521.9  | 2338.8  |
| 42025.7 | 72.5° | 27988.2 | 11735.3 | 2659.2  | 2476.1  | 2586.0  | 2448.7  | 2599.7  | 2462.4  | 2210.7  | 2128.3  |
| 36290.8 | 75°   | 23154.9 | 8806.1  | 2045.9  | 2142.0  | 2224.4  | 2119.1  | 2219.8  | 2119.1  | 1890.3  | 1949.8  |
| 26807.3 | 77.5° | 16815.8 | 5945.5  | 1565.3  | 1789.6  | 1826.2  | 1771.3  | 1858.2  | 1743.8  | 1537.9  | 1524.1  |
| 13360.2 | 80°   | 8362.1  | 3483.1  | 1226.6  | 1414.3  | 1400.6  | 1363.9  | 1464.6  | 1409.7  | 1235.8  | 1309.0  |
| 3606.7  | 82.5° | 2421.2  | 1492.1  | 892.5   | 993.2   | 965.7   | 974.9   | 1048.1  | 1075.6  | 1611.1  | 1597.4  |
| 1121.4  | 85°   | 759.8   | 585.9   | 535.5   | 553.8   | 526.4   | 540.1   | 617.9   | 1226.6  | 1135.1  | 663.7   |
| 347.8   | 87.5° | 196.8   | 201.4   | 132.7   | 141.9   | 146.5   | 173.9   | 196.8   | 746.0   | 357.0   | 233.4   |
| 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> |
|-------------|
| 15616.6     |
| 14870.6     |
| 13268.6     |
| 11058.0     |
| 9341.6      |
| 8545.2      |
| 7973.1      |
| 7776.3      |
| 7716.8      |
| 7492.5      |
| 7117.2      |
| 6810.5      |
| 6522.2      |
| 6206.4      |
| 5853.9      |
| 5455.7      |
| 4833.3      |
| 4540.4      |
| 4723.4      |
| 4595.3      |
| 4068.9      |
| 3716.5      |
| 3542.6      |
| 3322.9      |
| 3112.3      |
| 2901.8      |
| 2709.6      |
| 2521.9      |
| 2302.2      |
| 2059.6      |
| 1780.4      |
| 1455.5      |
| 1295.3      |
| 1634.0      |
| 718.6       |
| 247.2       |
| 0.0         |

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