

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: P943962

Luminaire Tested: **GALN-SB8C-940-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-940-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

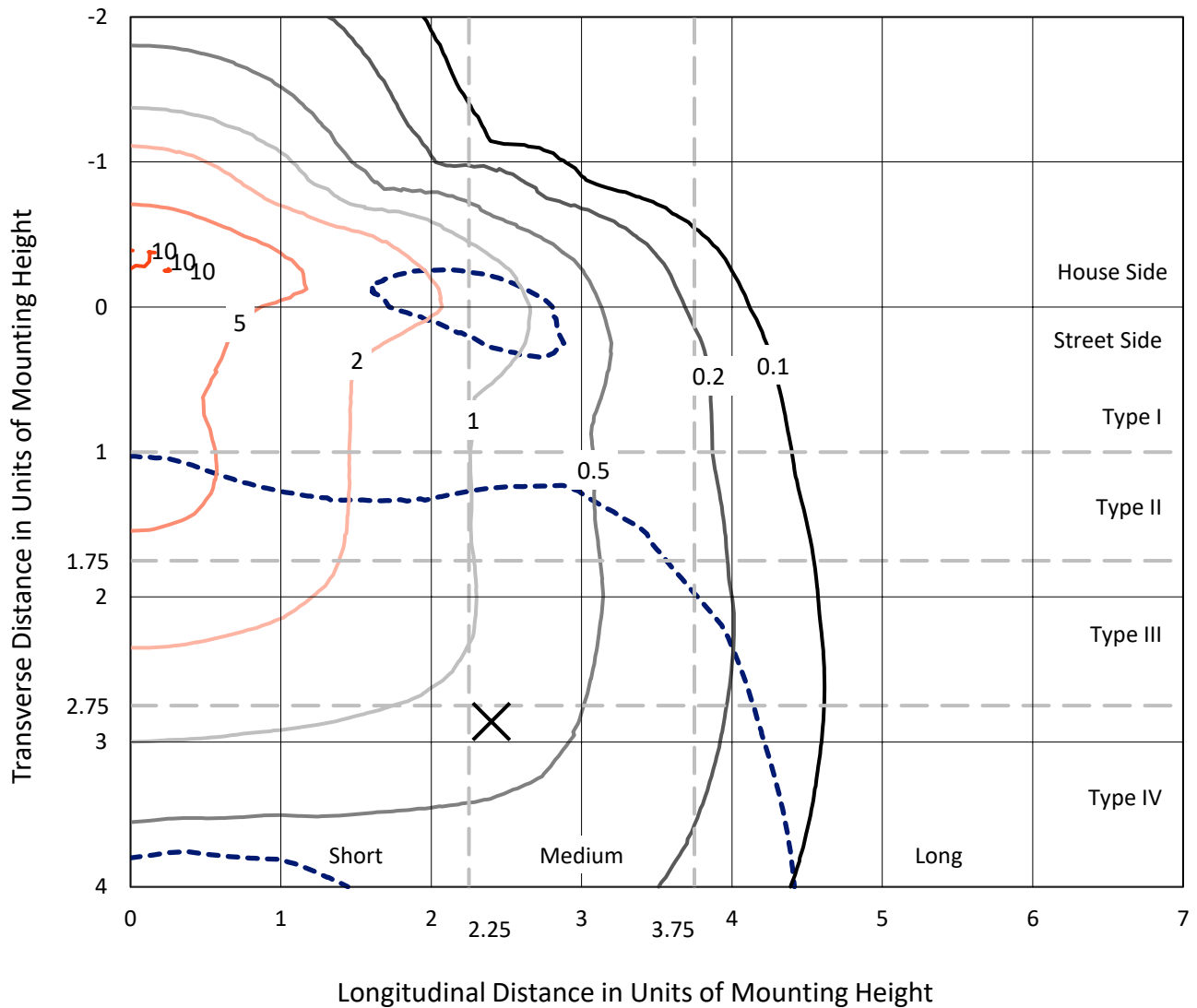
Lumens per Lamp: N/A  
Luminaire Lumens: 43499 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

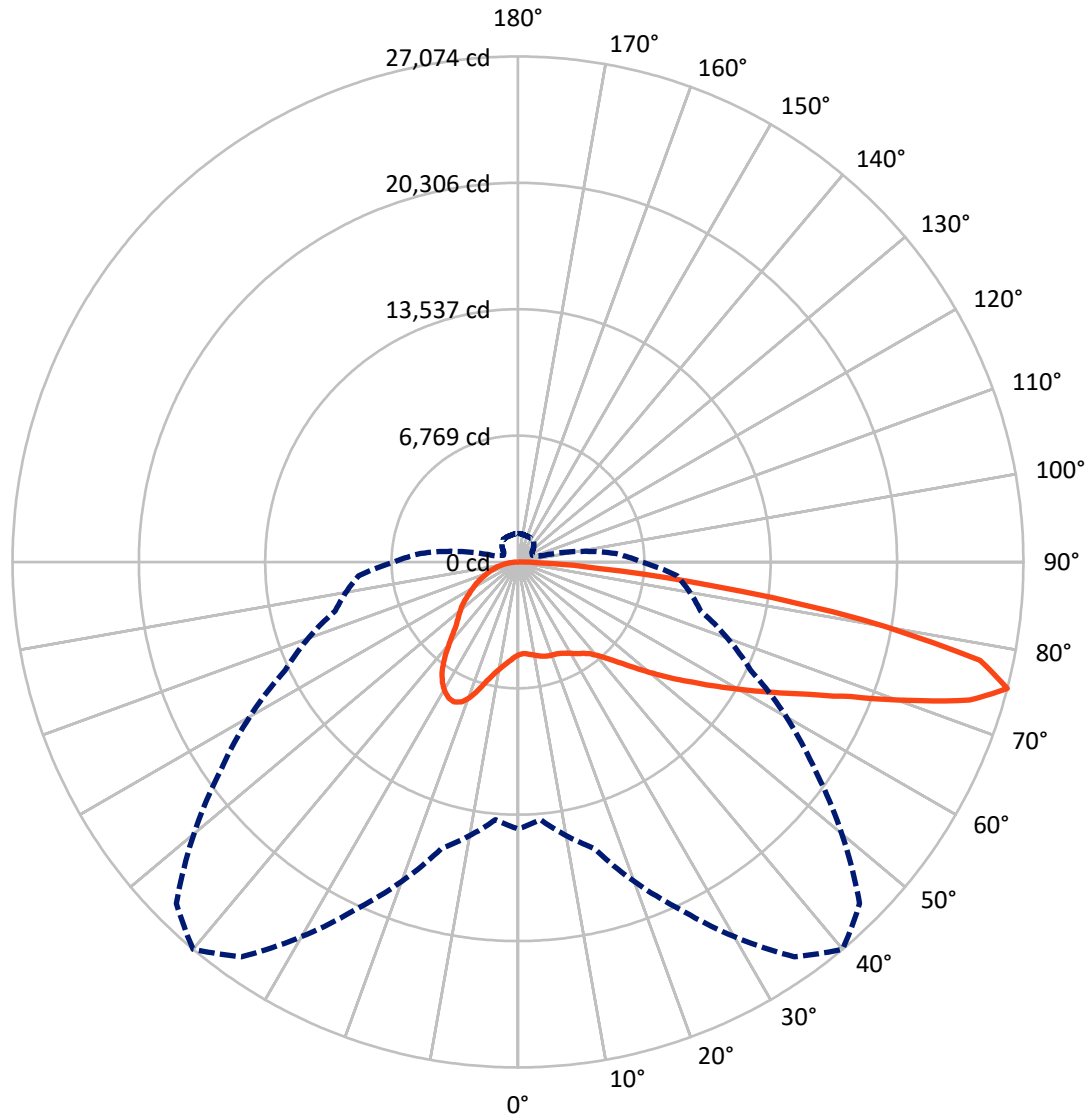
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13477.4  | 0.0    | 13477.4 |
|                    | % Fixture | 31.0     | 0.0    | 31.0    |
| <b>Street Side</b> | Lumens    | 30021.6  | 0.0    | 30021.6 |
|                    | % Fixture | 69.0     | 0.0    | 69.0    |
| <b>Total</b>       | Lumens    | 43499.0  | 0.0    | 43499.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 496.5   | 1.1       |
| 10°-20°   | 1667.0  | 3.8       |
| 20°-30°   | 3043.9  | 7.0       |
| 30°-40°   | 4317.0  | 9.9       |
| 40°-50°   | 5829.3  | 13.4      |
| 50°-60°   | 7842.0  | 18.0      |
| 60°-70°   | 9953.3  | 22.9      |
| 70°-80°   | 9033.2  | 20.8      |
| 80°-90°   | 1316.8  | 3.0       |
| 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°    | 43499.0 | 100.0     |
| 0°-180°   | 43499.0 | 100.0     |

**Coefficient of Utilization**



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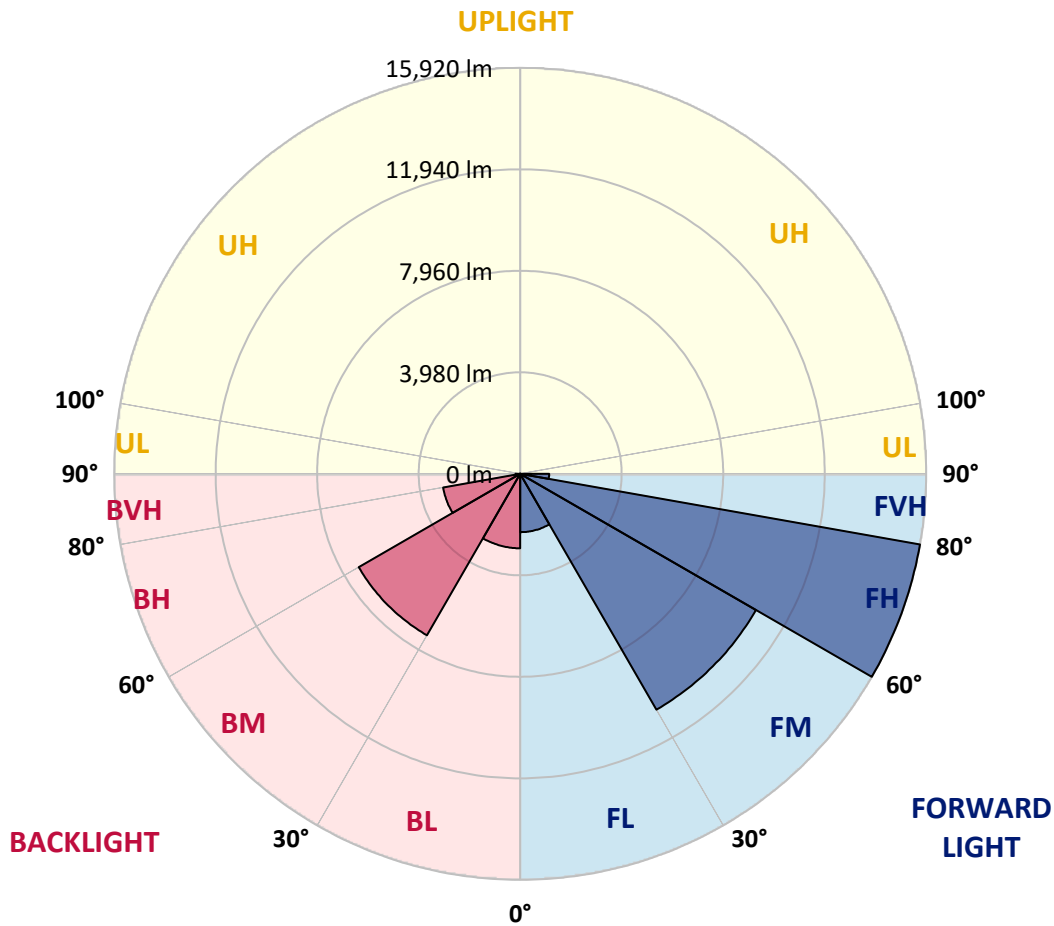
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2288.1  | 5.3       |                         |      |         |
| FM (30°-60°)   | 10678.0 | 24.5      |                         |      |         |
| FH (60°-80°)   | 15920.0 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1135.5  | 2.6       |                         |      | G5      |
| BL (0°-30°)    | 2919.3  | 6.7       | B4/5000                 |      |         |
| BM (30°-60°)   | 7310.3  | 16.8      | B4/8500                 |      |         |
| BH (60°-80°)   | 3066.5  | 7.0       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 181.3   | 0.4       |                         |      | G2/225  |
| 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°     | 40°     | 45°     | 55°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  | 4974.2  |
| 2.5°  | 4898.0  | 4925.7  | 4918.8  | 4909.6  | 4909.6  | 4911.9  | 4909.6  | 4925.7  | 4941.9  | 4958.0  |
| 5°    | 4948.8  | 4976.5  | 4962.6  | 4951.1  | 4941.9  | 4939.6  | 4932.6  | 4930.3  | 4939.6  | 4960.3  |
| 7.5°  | 5048.0  | 5075.7  | 5054.9  | 5034.2  | 5015.7  | 5006.5  | 4997.2  | 4983.4  | 4976.5  | 4988.0  |
| 10°   | 5158.7  | 5186.4  | 5161.0  | 5124.1  | 5094.1  | 5082.6  | 5073.4  | 5059.5  | 5050.3  | 5057.2  |
| 12.5° | 5269.5  | 5297.2  | 5262.6  | 5211.8  | 5172.6  | 5165.7  | 5154.1  | 5149.5  | 5147.2  | 5144.9  |
| 15°   | 5373.3  | 5396.4  | 5352.5  | 5292.6  | 5251.0  | 5239.5  | 5228.0  | 5234.9  | 5246.4  | 5260.3  |
| 17.5° | 5454.1  | 5477.1  | 5412.5  | 5334.1  | 5294.9  | 5290.2  | 5283.3  | 5306.4  | 5338.7  | 5373.3  |
| 20°   | 5527.9  | 5551.0  | 5467.9  | 5361.8  | 5315.6  | 5315.6  | 5317.9  | 5366.4  | 5412.5  | 5463.3  |
| 22.5° | 5631.7  | 5650.2  | 5548.6  | 5403.3  | 5336.4  | 5341.0  | 5359.5  | 5407.9  | 5465.6  | 5534.8  |
| 25°   | 5786.3  | 5800.1  | 5675.5  | 5481.7  | 5405.6  | 5419.4  | 5435.6  | 5458.7  | 5514.0  | 5594.8  |
| 27.5° | 6035.4  | 6047.0  | 5883.2  | 5620.2  | 5504.8  | 5527.9  | 5551.0  | 5534.8  | 5560.2  | 5629.4  |
| 30°   | 6386.1  | 6393.1  | 6185.4  | 5837.0  | 5673.2  | 5684.8  | 5689.4  | 5622.5  | 5574.0  | 5629.4  |
| 32.5° | 6801.4  | 6799.1  | 6552.2  | 6100.0  | 5864.7  | 5853.2  | 5814.0  | 5682.5  | 5569.4  | 5617.9  |
| 35°   | 7445.1  | 7419.7  | 7101.3  | 6469.2  | 6081.6  | 6010.1  | 5917.8  | 5749.4  | 5592.5  | 5606.3  |
| 37.5° | 8511.0  | 8432.6  | 7991.9  | 7073.7  | 6404.6  | 6222.3  | 6086.2  | 5857.8  | 5643.2  | 5601.7  |
| 40°   | 9713.0  | 9613.8  | 9129.3  | 7901.9  | 6889.1  | 6596.1  | 6376.9  | 6012.4  | 5726.3  | 5622.5  |
| 42.5° | 11138.8 | 10998.1 | 10476.7 | 8877.8  | 7502.8  | 7078.3  | 6748.4  | 6208.5  | 5848.6  | 5689.4  |
| 45°   | 12889.9 | 12703.0 | 11964.8 | 9978.3  | 8275.7  | 7710.4  | 7269.8  | 6506.1  | 6035.4  | 5818.6  |
| 47.5° | 14659.5 | 14705.6 | 13655.9 | 11238.0 | 9203.1  | 8490.2  | 7922.7  | 6953.7  | 6307.7  | 6026.2  |
| 50°   | 16539.8 | 16572.1 | 15337.8 | 12633.8 | 10255.2 | 9371.6  | 8656.3  | 7454.3  | 6686.1  | 6321.5  |
| 52.5° | 18007.1 | 18011.8 | 16865.1 | 14094.2 | 11351.1 | 10340.5 | 9447.7  | 8026.5  | 7124.4  | 6713.7  |
| 55°   | 18925.4 | 18913.8 | 17935.6 | 15476.2 | 12610.8 | 11358.0 | 10324.4 | 8677.1  | 7659.7  | 7175.2  |
| 57.5° | 19592.1 | 19557.5 | 18673.9 | 16664.4 | 13953.5 | 12560.0 | 11316.5 | 9415.4  | 8291.8  | 7724.3  |
| 60°   | 19845.9 | 19825.2 | 19174.5 | 17691.1 | 15365.5 | 13888.9 | 12460.8 | 10241.3 | 9009.3  | 8372.6  |
| 62.5° | 19942.8 | 19982.0 | 19666.0 | 18685.4 | 16876.6 | 15360.9 | 13718.2 | 11228.8 | 9816.8  | 9106.2  |
| 65°   | 20284.3 | 20355.8 | 20291.2 | 19986.7 | 18583.9 | 17084.3 | 15386.2 | 12403.1 | 10698.2 | 9893.0  |
| 67.5° | 20960.3 | 21031.8 | 21059.5 | 21544.0 | 20669.6 | 19232.2 | 17467.3 | 13865.8 | 11729.4 | 10709.7 |
| 70°   | 20944.1 | 20923.3 | 21412.5 | 22782.9 | 23281.2 | 22206.1 | 20272.7 | 15665.4 | 12959.1 | 11388.0 |
| 72.5° | 19063.8 | 18897.7 | 20053.6 | 22769.0 | 25454.5 | 25311.5 | 23698.8 | 17986.4 | 14020.4 | 11471.0 |
| 75°   | 14301.9 | 13858.9 | 15900.7 | 20519.6 | 25816.8 | 27074.2 | 25876.8 | 19426.0 | 13768.9 | 10135.2 |
| 77.5° | 6116.2  | 5670.9  | 8077.3  | 15190.1 | 23105.9 | 25309.2 | 23878.8 | 16948.2 | 10991.2 | 6702.2  |
| 80°   | 1601.1  | 1598.8  | 2440.9  | 6886.8  | 15713.9 | 18690.0 | 16396.8 | 10945.0 | 6280.0  | 2394.8  |
| 82.5° | 662.1   | 646.0   | 897.5   | 2678.6  | 7678.1  | 10488.2 | 8559.4  | 4881.9  | 2267.9  | 648.3   |
| 85°   | 246.9   | 244.6   | 436.0   | 925.2   | 2708.6  | 4325.9  | 3130.8  | 1248.2  | 565.2   | 316.1   |
| 87.5° | 69.2    | 66.9    | 94.6    | 320.7   | 659.8   | 1001.3  | 535.3   | 205.3   | 159.2   | 124.6   |
| 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°   |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 4974.2  | 0°    | 4974.2  | 4974.2  | 4974.2  | 4974.2 | 4974.2 | 4974.2 | 4974.2 | 4974.2 | 4974.2 | 4974.2 |
| 4983.4  | 2.5°  | 4990.3  | 5001.9  | 5022.6  | 5038.8 | 5059.5 | 5082.6 | 5114.9 | 5135.7 | 5156.4 | 5170.3 |
| 4994.9  | 5°    | 5011.1  | 5036.5  | 5089.5  | 5142.6 | 5204.9 | 5262.6 | 5329.5 | 5377.9 | 5417.1 | 5428.7 |
| 5036.5  | 7.5°  | 5057.2  | 5098.8  | 5188.7  | 5278.7 | 5377.9 | 5472.5 | 5569.4 | 5652.5 | 5719.4 | 5744.7 |
| 5110.3  | 10°   | 5138.0  | 5193.3  | 5320.2  | 5447.1 | 5578.6 | 5724.0 | 5848.6 | 5968.5 | 6063.1 | 6102.4 |
| 5198.0  | 12.5° | 5239.5  | 5308.7  | 5474.8  | 5650.2 | 5832.4 | 6033.1 | 6194.6 | 6342.3 | 6460.0 | 6513.0 |
| 5320.2  | 15°   | 5371.0  | 5461.0  | 5673.2  | 5908.6 | 6176.2 | 6455.3 | 6660.7 | 6824.5 | 6956.0 | 7020.6 |
| 5447.1  | 17.5° | 5514.0  | 5634.0  | 5901.6  | 6256.9 | 6639.9 | 7006.7 | 7246.7 | 7366.7 | 7502.8 | 7565.1 |
| 5564.8  | 20°   | 5652.5  | 5800.1  | 6183.1  | 6699.9 | 7209.8 | 7599.7 | 7793.5 | 7825.8 | 7835.0 | 7841.9 |
| 5675.5  | 22.5° | 5795.5  | 5993.9  | 6536.1  | 7258.2 | 7805.0 | 8074.9 | 8102.6 | 7964.2 | 7770.4 | 7680.4 |
| 5784.0  | 25°   | 5952.4  | 6215.4  | 6997.5  | 7874.2 | 8317.2 | 8349.5 | 8137.2 | 7800.4 | 7433.6 | 7265.1 |
| 5871.6  | 27.5° | 6104.7  | 6471.5  | 7551.2  | 8462.5 | 8686.3 | 8402.6 | 7945.7 | 7468.2 | 7025.2 | 6847.6 |
| 5933.9  | 30°   | 6256.9  | 6764.5  | 8162.6  | 8977.0 | 8854.8 | 8271.1 | 7643.5 | 7110.6 | 6665.3 | 6478.4 |
| 5989.3  | 32.5° | 6411.5  | 7106.0  | 8866.3  | 9348.5 | 8824.8 | 7991.9 | 7267.5 | 6709.1 | 6316.9 | 6120.8 |
| 6037.8  | 35°   | 6586.9  | 7525.9  | 9533.1  | 9551.5 | 8624.0 | 7581.2 | 6771.4 | 6229.2 | 5887.8 | 5730.9 |
| 6095.4  | 37.5° | 6815.3  | 8058.8  | 10121.4 | 9602.3 | 8273.4 | 6979.1 | 6155.4 | 5661.7 | 5380.2 | 5308.7 |
| 6180.8  | 40°   | 7099.0  | 8700.2  | 10571.3 | 9521.5 | 7754.3 | 6247.7 | 5481.7 | 5087.2 | 4928.0 | 4944.2 |
| 6296.2  | 42.5° | 7468.2  | 9417.7  | 10887.3 | 9313.9 | 7032.1 | 5493.3 | 4891.1 | 4715.8 | 4791.9 | 4856.5 |
| 6469.2  | 45°   | 7948.1  | 10162.9 | 11083.4 | 8960.9 | 6215.4 | 4854.2 | 4542.7 | 4584.3 | 4641.9 | 4648.9 |
| 6748.4  | 47.5° | 8561.8  | 10917.3 | 11212.6 | 8427.9 | 5382.5 | 4404.3 | 4321.3 | 4330.5 | 4318.9 | 4270.5 |
| 7165.9  | 50°   | 9327.7  | 11651.0 | 11328.0 | 7722.0 | 4674.2 | 4122.8 | 4012.1 | 3979.8 | 3820.6 | 3663.7 |
| 7722.0  | 52.5° | 10199.8 | 12324.7 | 11376.4 | 6845.2 | 4122.8 | 3887.5 | 3707.6 | 3504.5 | 3206.9 | 3158.5 |
| 8421.0  | 55°   | 11168.8 | 12947.6 | 11251.9 | 5767.8 | 3659.1 | 3585.3 | 3313.0 | 3068.5 | 3036.2 | 2994.7 |
| 9341.6  | 57.5° | 12327.0 | 13619.0 | 10998.1 | 4565.8 | 3183.8 | 3232.3 | 2967.0 | 2994.7 | 2937.0 | 2872.4 |
| 10525.1 | 60°   | 13593.6 | 14313.4 | 10552.8 | 3469.9 | 2692.4 | 2791.6 | 2877.0 | 2874.7 | 2858.5 | 2805.5 |
| 11773.3 | 62.5° | 14733.3 | 14770.2 | 9676.1  | 2657.8 | 2261.0 | 2450.2 | 2683.2 | 2680.9 | 2667.0 | 2637.0 |
| 13076.8 | 65°   | 15411.6 | 14701.0 | 8213.4  | 2092.6 | 1905.7 | 2168.7 | 2420.2 | 2438.6 | 2440.9 | 2438.6 |
| 14057.3 | 67.5° | 15291.6 | 13891.2 | 6206.2  | 1665.7 | 1612.7 | 1882.6 | 2159.5 | 2184.9 | 2203.3 | 2207.9 |
| 14181.9 | 70°   | 13935.1 | 12112.4 | 4046.7  | 1328.9 | 1352.0 | 1631.1 | 1912.6 | 1938.0 | 1954.1 | 1972.6 |
| 12306.2 | 72.5° | 10862.0 | 8905.5  | 2316.4  | 1075.1 | 1123.6 | 1414.3 | 1668.1 | 1698.0 | 1707.3 | 1741.9 |
| 8564.1  | 75°   | 6619.2  | 5237.2  | 1250.5  | 846.7  | 922.9  | 1208.9 | 1425.8 | 1460.4 | 1476.6 | 1518.1 |
| 4205.9  | 77.5° | 3146.9  | 2267.9  | 712.9   | 659.8  | 742.9  | 987.5  | 1204.3 | 1243.5 | 1199.7 | 1222.8 |
| 1160.5  | 80°   | 1063.6  | 842.1   | 449.9   | 503.0  | 567.6  | 770.6  | 964.4  | 1003.6 | 911.3  | 906.7  |
| 385.3   | 82.5° | 371.4   | 341.5   | 286.1   | 334.5  | 366.8  | 551.4  | 729.1  | 779.8  | 678.3  | 676.0  |
| 173.0   | 85°   | 145.3   | 138.4   | 159.2   | 182.3  | 219.2  | 339.1  | 479.9  | 505.3  | 417.6  | 336.8  |
| 50.8    | 87.5° | 30.0    | 32.3    | 39.2    | 41.5   | 66.9   | 117.7  | 173.0  | 212.3  | 168.4  | 143.0  |
| 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> |
|-------------|
| 4974.2      |
| 5161.0      |
| 5433.3      |
| 5747.1      |
| 6104.7      |
| 6513.0      |
| 7016.0      |
| 7562.8      |
| 7860.4      |
| 7705.8      |
| 7290.5      |
| 6868.3      |
| 6499.2      |
| 6146.2      |
| 5765.5      |
| 5359.5      |
| 4999.5      |
| 4916.5      |
| 4695.0      |
| 4307.4      |
| 3684.5      |
| 3174.6      |
| 3001.6      |
| 2860.8      |
| 2787.0      |
| 2625.5      |
| 2438.6      |
| 2212.5      |
| 1981.8      |
| 1755.7      |
| 1522.7      |
| 1204.3      |
| 897.5       |
| 643.7       |
| 332.2       |
| 131.5       |
| 0.0         |

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