

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: P953968

Luminaire Tested: **GALN-SB7B-840-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953968  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

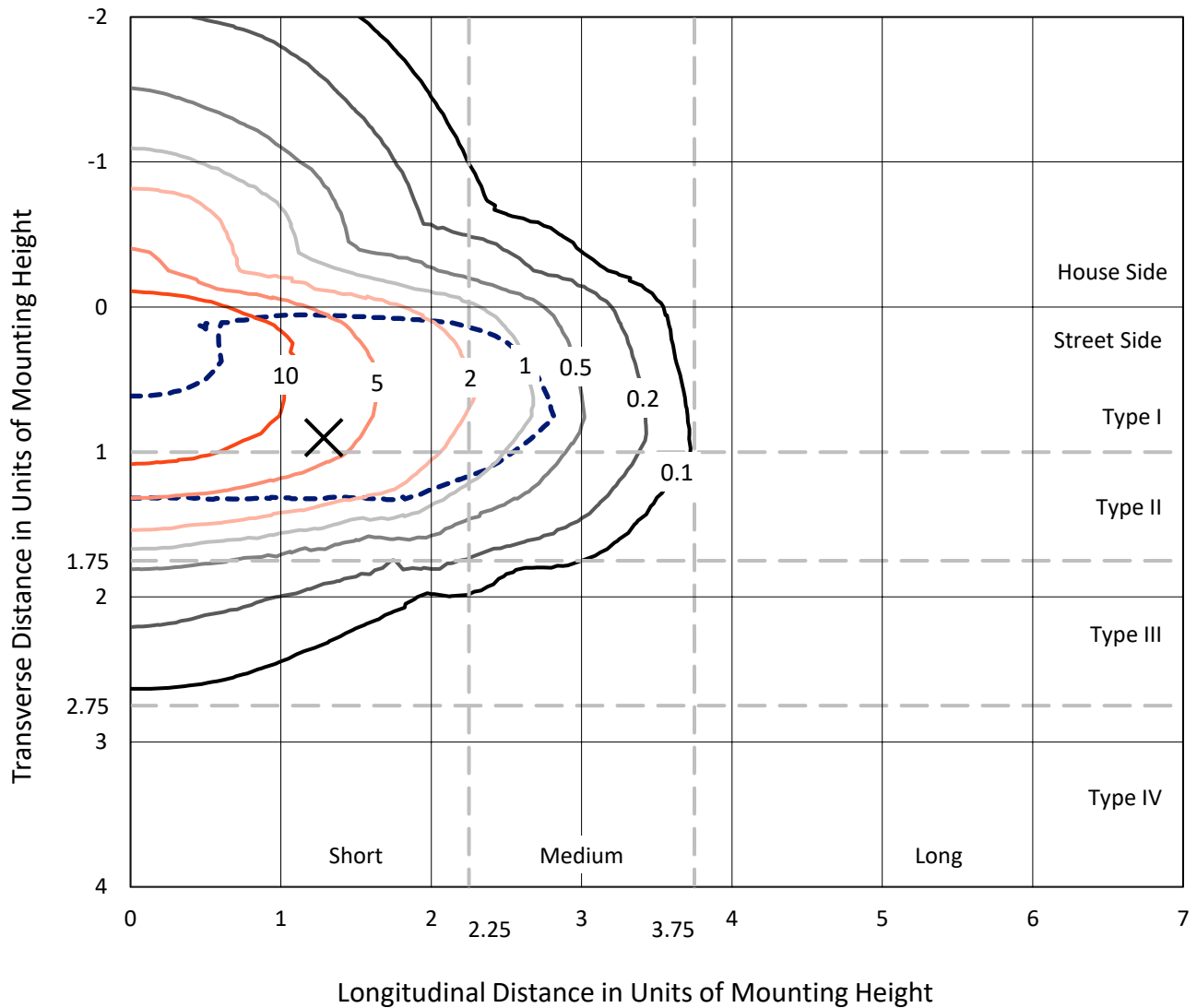
Lumens per Lamp: N/A  
Luminaire Lumens: 38957 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

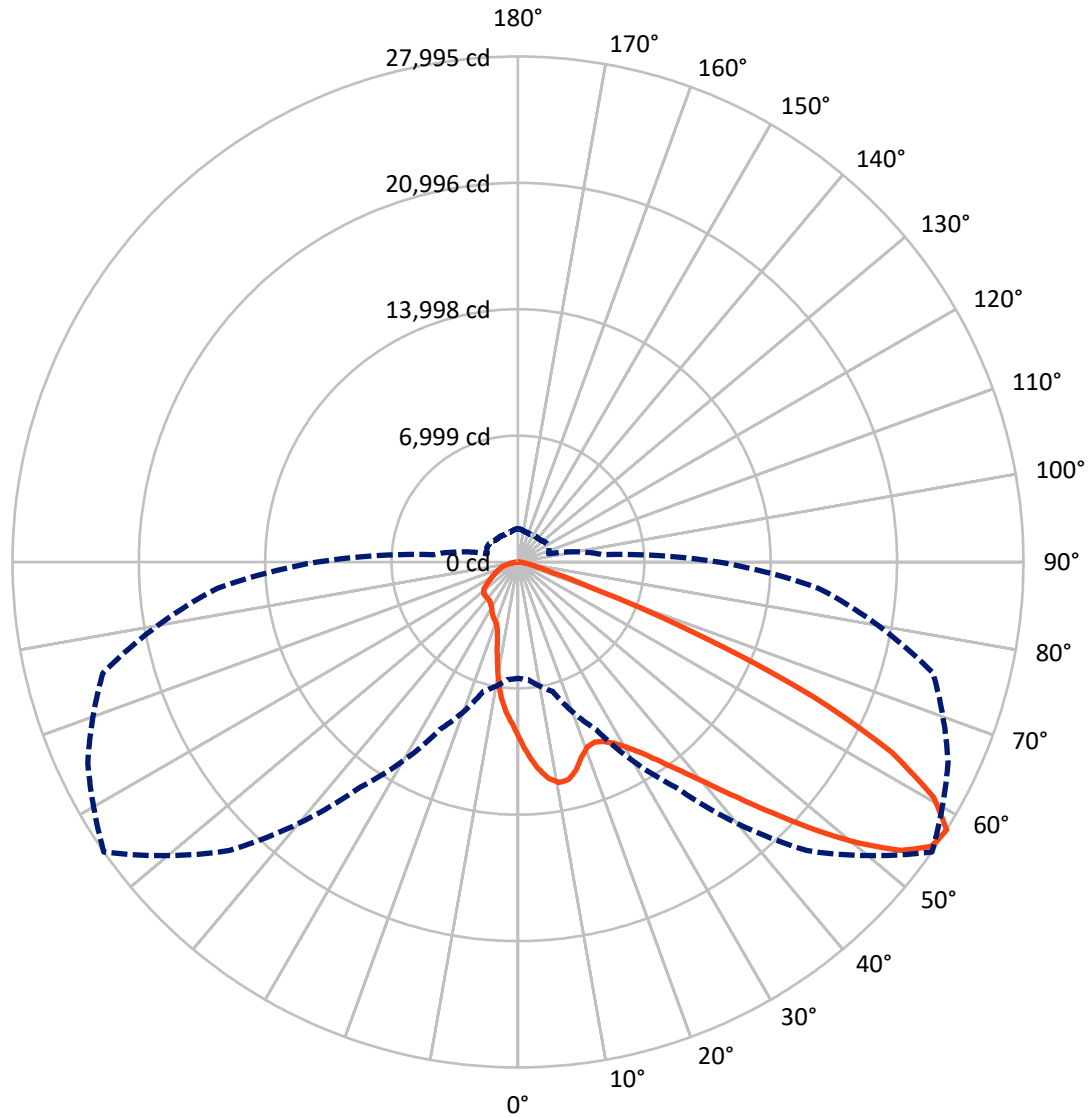
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7049.1   | 0.0    | 7049.1  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 31907.9  | 0.0    | 31907.9 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 38957.0  | 0.0    | 38957.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 905.8   | 2.3       |
| 10°-20°   | 2286.3  | 5.9       |
| 20°-30°   | 3648.2  | 9.4       |
| 30°-40°   | 5776.1  | 14.8      |
| 40°-50°   | 8840.9  | 22.7      |
| 50°-60°   | 9469.4  | 24.3      |
| 60°-70°   | 5957.2  | 15.3      |
| 70°-80°   | 1761.7  | 4.5       |
| 80°-90°   | 311.5   | 0.8       |
| 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°    | 38957.0 | 100.0     |
| 0°-180°   | 38957.0 | 100.0     |

**Coefficient of Utilization**



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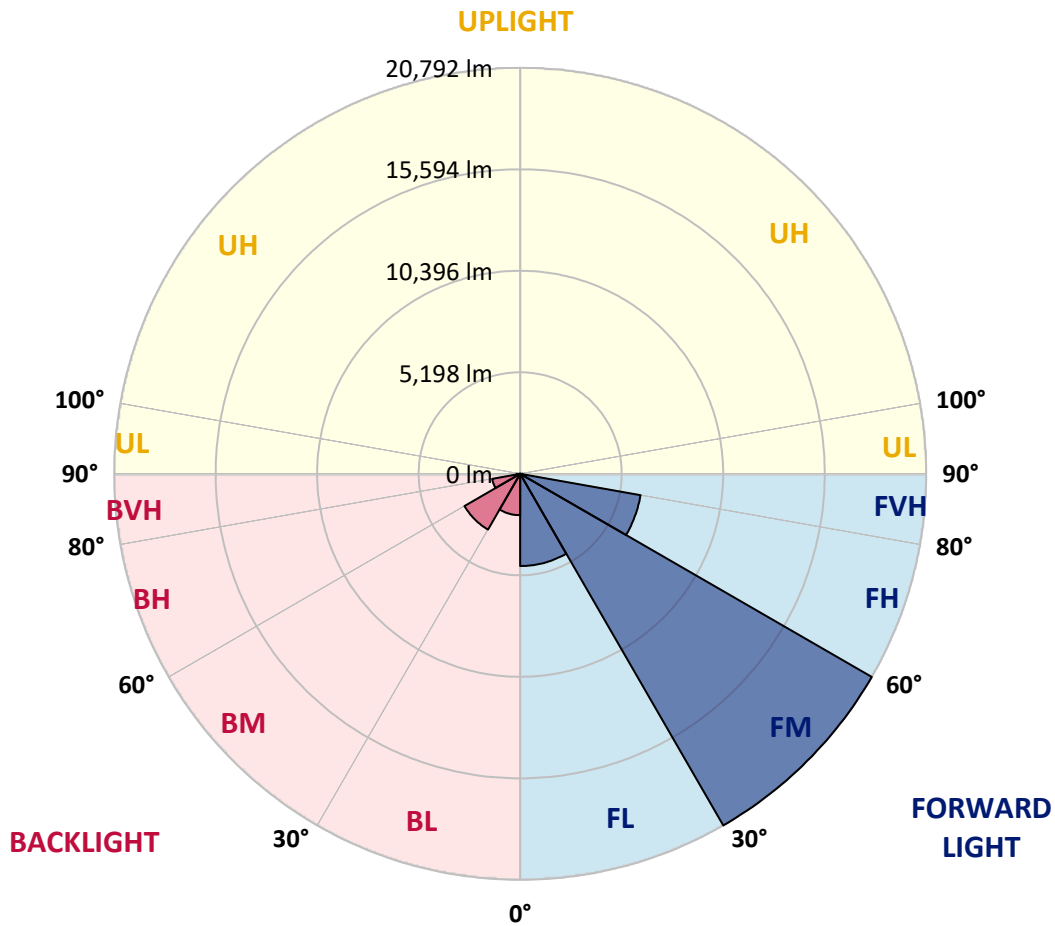
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 4721.6  | 12.1      |                         |      |         |
| FM (30°-60°)   | 20791.6 | 53.4      |                         |      |         |
| FH (60°-80°)   | 6263.1  | 16.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 131.6   | 0.3       |                         |      | G2/225  |
| BL (0°-30°)    | 2118.7  | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 3294.7  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 1455.8  | 3.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 179.9   | 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 Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  | 9761.4  |
| 2.5°  | 11199.3 | 11191.2 | 11235.5 | 11084.5 | 10981.8 | 10842.8 | 10659.6 | 10425.9 | 10174.2 | 9908.4  |
| 5°    | 12208.2 | 12137.8 | 12184.1 | 12071.3 | 11958.5 | 11749.1 | 11477.2 | 11096.6 | 10631.4 | 10101.7 |
| 7.5°  | 12049.1 | 12000.8 | 12119.6 | 12220.3 | 12304.9 | 12278.7 | 12079.4 | 11680.6 | 11080.5 | 10311.2 |
| 10°   | 10766.3 | 10711.9 | 10879.1 | 11227.5 | 11739.0 | 12184.1 | 12425.7 | 12178.0 | 11539.6 | 10540.7 |
| 12.5° | 9634.5  | 9608.3  | 9719.1  | 10001.0 | 10568.9 | 11422.8 | 12381.4 | 12613.0 | 12016.9 | 10812.6 |
| 15°   | 9151.1  | 9118.9  | 9189.4  | 9332.4  | 9694.9  | 10490.4 | 11978.7 | 12911.1 | 12486.2 | 11126.8 |
| 17.5° | 9044.4  | 9008.2  | 9038.4  | 9112.9  | 9346.5  | 9952.7  | 11370.5 | 13058.1 | 12975.5 | 11477.2 |
| 20°   | 9241.8  | 9211.6  | 9215.6  | 9211.6  | 9374.7  | 9856.0  | 10947.5 | 13001.7 | 13402.5 | 11799.4 |
| 22.5° | 9719.1  | 9668.7  | 9670.7  | 9564.0  | 9652.6  | 10025.2 | 10836.8 | 12850.7 | 13783.1 | 12081.4 |
| 25°   | 10496.4 | 10405.8 | 10423.9 | 10152.1 | 10127.9 | 10403.8 | 11010.0 | 12733.9 | 14161.7 | 12306.9 |
| 27.5° | 11559.8 | 11457.1 | 11402.7 | 10997.9 | 10804.6 | 10941.5 | 11362.4 | 12774.1 | 14520.2 | 12502.3 |
| 30°   | 12888.9 | 12764.1 | 12653.3 | 12079.4 | 11728.9 | 11678.6 | 11910.2 | 13040.0 | 14943.1 | 12707.7 |
| 32.5° | 14518.2 | 14373.2 | 14171.8 | 13410.5 | 12917.1 | 12653.3 | 12619.1 | 13513.3 | 15438.5 | 12969.5 |
| 35°   | 16457.6 | 16268.3 | 15982.3 | 14997.5 | 14373.2 | 13833.5 | 13553.5 | 14196.0 | 16117.2 | 13364.2 |
| 37.5° | 18455.4 | 18241.9 | 17980.1 | 16808.0 | 16040.7 | 15245.2 | 14693.4 | 15122.4 | 17021.5 | 13899.9 |
| 40°   | 20298.1 | 20058.4 | 19814.7 | 18771.5 | 17947.9 | 16989.2 | 16089.0 | 16294.4 | 18127.1 | 14540.3 |
| 42.5° | 21385.6 | 21208.4 | 21115.7 | 20551.8 | 19915.4 | 18942.7 | 17825.0 | 17684.0 | 19369.7 | 15277.4 |
| 45°   | 21337.2 | 21264.7 | 21550.7 | 21784.3 | 21633.3 | 21093.6 | 19859.0 | 19220.6 | 20616.3 | 15915.8 |
| 47.5° | 20197.4 | 20245.7 | 20884.1 | 22197.2 | 22775.2 | 23057.1 | 22175.0 | 20729.0 | 21699.7 | 16393.1 |
| 50°   | 17096.0 | 17136.3 | 18614.5 | 21446.0 | 23069.2 | 24658.2 | 24472.9 | 22201.2 | 22539.5 | 16685.1 |
| 52.5° | 14641.0 | 14667.2 | 15301.6 | 19218.6 | 22098.5 | 25463.7 | 26543.2 | 23588.8 | 23153.8 | 16765.7 |
| 55°   | 11028.1 | 11118.7 | 11829.6 | 15078.0 | 19573.1 | 24825.3 | 27803.9 | 25018.6 | 23542.5 | 16773.7 |
| 57.5° | 6442.5  | 6541.1  | 7419.2  | 10234.6 | 15213.0 | 22600.0 | 27995.2 | 26287.4 | 23806.3 | 16709.3 |
| 60°   | 3155.8  | 3198.1  | 3580.7  | 5379.1  | 9380.7  | 18312.4 | 26456.6 | 26901.6 | 23953.3 | 16675.1 |
| 62.5° | 2126.7  | 2120.6  | 2136.7  | 2654.3  | 4621.9  | 11765.2 | 23250.4 | 25826.2 | 23874.8 | 16544.2 |
| 65°   | 1828.6  | 1806.5  | 1746.0  | 1862.9  | 2394.5  | 5381.1  | 17964.0 | 22616.1 | 23276.6 | 16215.9 |
| 67.5° | 1580.9  | 1582.9  | 1584.9  | 1548.7  | 1709.8  | 2483.1  | 10977.8 | 17814.9 | 21129.8 | 14661.2 |
| 70°   | 1309.0  | 1327.2  | 1335.2  | 1335.2  | 1393.6  | 1629.2  | 4686.3  | 12210.3 | 16667.0 | 11495.3 |
| 72.5° | 1192.2  | 1154.0  | 1158.0  | 1137.9  | 1137.9  | 1240.6  | 1887.0  | 6921.8  | 10500.5 | 6466.6  |
| 75°   | 972.7   | 996.9   | 1000.9  | 986.8   | 940.5   | 946.5   | 1119.7  | 2904.0  | 4493.0  | 2682.5  |
| 77.5° | 839.8   | 839.8   | 847.9   | 837.8   | 801.5   | 708.9   | 747.2   | 1125.8  | 1528.5  | 1099.6  |
| 80°   | 674.7   | 672.6   | 706.9   | 727.0   | 670.6   | 523.6   | 477.3   | 622.3   | 678.7   | 483.3   |
| 82.5° | 328.3   | 348.4   | 485.3   | 553.8   | 509.5   | 378.6   | 292.0   | 386.7   | 362.5   | 213.5   |
| 85°   | 191.3   | 181.3   | 217.5   | 308.1   | 292.0   | 209.4   | 141.0   | 201.4   | 189.3   | 108.8   |
| 87.5° | 60.4    | 56.4    | 44.3    | 104.7   | 84.6    | 58.4    | 38.3    | 58.4    | 52.4    | 24.2    |
| 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):**

| 90°     |       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9761.4  | 0°    | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 | 9761.4 |
| 9793.6  | 2.5°  | 9650.6 | 9413.0 | 9177.3 | 8961.8 | 8830.9 | 8746.4 | 8661.8 | 8567.1 | 8530.9 | 8476.5 |
| 9819.8  | 5°    | 9553.9 | 9094.8 | 8685.9 | 8333.5 | 8013.3 | 7761.6 | 7507.8 | 7302.4 | 7209.8 | 7272.2 |
| 9902.3  | 7.5°  | 9497.5 | 8833.0 | 8202.6 | 7556.1 | 6933.8 | 6436.4 | 6003.4 | 5699.3 | 5562.4 | 5596.6 |
| 9982.9  | 10°   | 9447.2 | 8536.9 | 7576.3 | 6555.2 | 5661.1 | 5044.8 | 4601.8 | 4370.2 | 4283.6 | 4301.7 |
| 10091.6 | 12.5° | 9400.9 | 8204.6 | 6821.1 | 5477.8 | 4527.2 | 4120.4 | 3993.6 | 3995.6 | 4011.7 | 4023.8 |
| 10264.8 | 15°   | 9392.8 | 7803.9 | 5977.2 | 4535.3 | 3915.0 | 3888.8 | 4025.8 | 4112.4 | 4158.7 | 4172.8 |
| 10409.8 | 17.5° | 9380.7 | 7324.5 | 5117.3 | 3892.9 | 3766.0 | 3943.2 | 4070.1 | 4126.5 | 4162.7 | 4164.7 |
| 10550.8 | 20°   | 9332.4 | 6716.3 | 4323.8 | 3586.8 | 3733.8 | 3886.8 | 3965.4 | 4009.7 | 4039.9 | 4049.9 |
| 10657.5 | 22.5° | 9183.4 | 6039.7 | 3705.6 | 3449.8 | 3604.9 | 3727.7 | 3820.4 | 3870.7 | 3888.8 | 3900.9 |
| 10677.7 | 25°   | 8915.5 | 5282.5 | 3278.6 | 3318.9 | 3425.6 | 3580.7 | 3655.2 | 3665.3 | 3659.3 | 3677.4 |
| 10627.3 | 27.5° | 8565.1 | 4470.9 | 3012.8 | 3141.7 | 3278.6 | 3411.5 | 3451.8 | 3445.8 | 3433.7 | 3453.8 |
| 10540.7 | 30°   | 8142.2 | 3741.8 | 2843.6 | 2942.3 | 3129.6 | 3250.4 | 3286.7 | 3272.6 | 3248.4 | 3270.6 |
| 10496.4 | 32.5° | 7695.1 | 3145.7 | 2704.7 | 2803.3 | 3006.7 | 3125.6 | 3161.8 | 3147.7 | 3129.6 | 3147.7 |
| 10546.8 | 35°   | 7278.2 | 2728.8 | 2575.8 | 2710.7 | 2910.1 | 3026.9 | 3073.2 | 3075.2 | 3075.2 | 3097.4 |
| 10679.7 | 37.5° | 6895.6 | 2485.1 | 2469.0 | 2652.3 | 2843.6 | 2948.3 | 3014.8 | 3018.8 | 2932.2 | 2938.3 |
| 10905.3 | 40°   | 6541.1 | 2382.4 | 2420.7 | 2614.0 | 2779.2 | 2879.9 | 2883.9 | 2658.3 | 2499.2 | 2495.2 |
| 11163.0 | 42.5° | 6251.1 | 2362.3 | 2434.8 | 2610.0 | 2732.9 | 2736.9 | 2452.9 | 2277.7 | 2233.4 | 2235.4 |
| 11400.7 | 45°   | 5979.3 | 2356.3 | 2467.0 | 2610.0 | 2664.4 | 2364.3 | 2173.0 | 2126.7 | 2130.7 | 2146.8 |
| 11507.4 | 47.5° | 5675.2 | 2332.1 | 2473.1 | 2573.8 | 2467.0 | 2102.5 | 2046.1 | 2026.0 | 2017.9 | 2022.0 |
| 11483.2 | 50°   | 5342.9 | 2245.5 | 2396.5 | 2501.3 | 2128.7 | 1989.7 | 1919.2 | 1913.2 | 1923.3 | 1929.3 |
| 11348.3 | 52.5° | 4992.5 | 2104.5 | 2265.6 | 2370.4 | 1973.6 | 1891.0 | 1812.5 | 1826.6 | 1870.9 | 1885.0 |
| 11207.3 | 55°   | 4762.9 | 1939.4 | 2092.4 | 2108.6 | 1864.9 | 1798.4 | 1732.0 | 1764.2 | 1846.7 | 1872.9 |
| 11122.8 | 57.5° | 4702.4 | 1764.2 | 1895.1 | 1877.0 | 1725.9 | 1717.9 | 1677.6 | 1705.8 | 1810.5 | 1848.8 |
| 11118.7 | 60°   | 4684.3 | 1607.1 | 1701.7 | 1687.6 | 1591.0 | 1629.2 | 1619.2 | 1633.3 | 1669.5 | 1681.6 |
| 11078.4 | 62.5° | 4543.4 | 1482.2 | 1528.5 | 1508.4 | 1470.1 | 1536.6 | 1560.8 | 1530.6 | 1558.8 | 1572.9 |
| 10802.5 | 65°   | 4184.9 | 1381.5 | 1359.4 | 1345.3 | 1361.4 | 1421.8 | 1470.1 | 1409.7 | 1435.9 | 1476.2 |
| 9739.2  | 67.5° | 3592.8 | 1244.6 | 1184.2 | 1200.3 | 1250.6 | 1282.9 | 1345.3 | 1276.8 | 1299.0 | 1367.4 |
| 7844.1  | 70°   | 2906.1 | 1071.4 | 1017.0 | 1063.3 | 1111.7 | 1178.1 | 1188.2 | 1141.9 | 1194.2 | 1270.8 |
| 4787.0  | 72.5° | 2056.2 | 896.2  | 857.9  | 952.6  | 968.7  | 1055.3 | 1033.1 | 1011.0 | 1083.5 | 1109.7 |
| 2366.3  | 75°   | 1425.8 | 723.0  | 700.8  | 773.3  | 831.7  | 906.3  | 890.1  | 916.3  | 1069.4 | 1081.5 |
| 1182.2  | 77.5° | 902.2  | 561.9  | 547.8  | 594.1  | 674.7  | 757.2  | 783.4  | 1081.5 | 1826.6 | 1899.1 |
| 614.2   | 80°   | 523.6  | 418.9  | 402.8  | 439.0  | 509.5  | 586.0  | 755.2  | 1327.2 | 1204.3 | 1190.2 |
| 275.9   | 82.5° | 292.0  | 288.0  | 267.8  | 277.9  | 340.3  | 422.9  | 1067.4 | 934.4  | 759.2  | 783.4  |
| 110.8   | 85°   | 136.9  | 169.2  | 145.0  | 139.0  | 191.3  | 495.4  | 712.9  | 533.7  | 354.4  | 346.4  |
| 24.2    | 87.5° | 36.3   | 32.2   | 32.2   | 36.3   | 80.6   | 426.9  | 284.0  | 227.6  | 134.9  | 130.9  |
| 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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