

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: P953847

Luminaire Tested: **GALN-SB7B-740-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953847  
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-SB7B-740-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

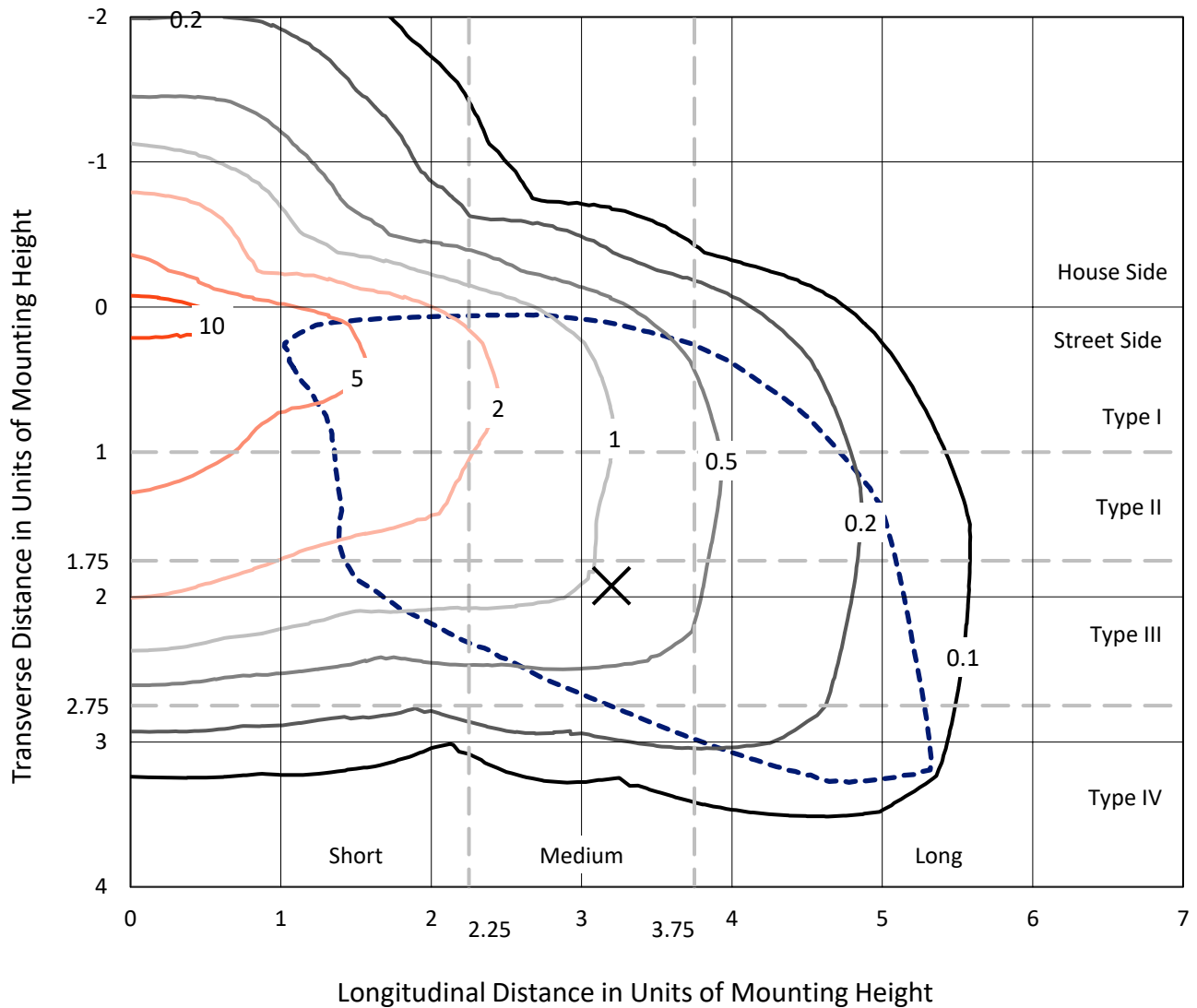
Lumens per Lamp: N/A  
Luminaire Lumens: 41407 lumens  
Efficiency: N/A  
Efficacy: 161.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): 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

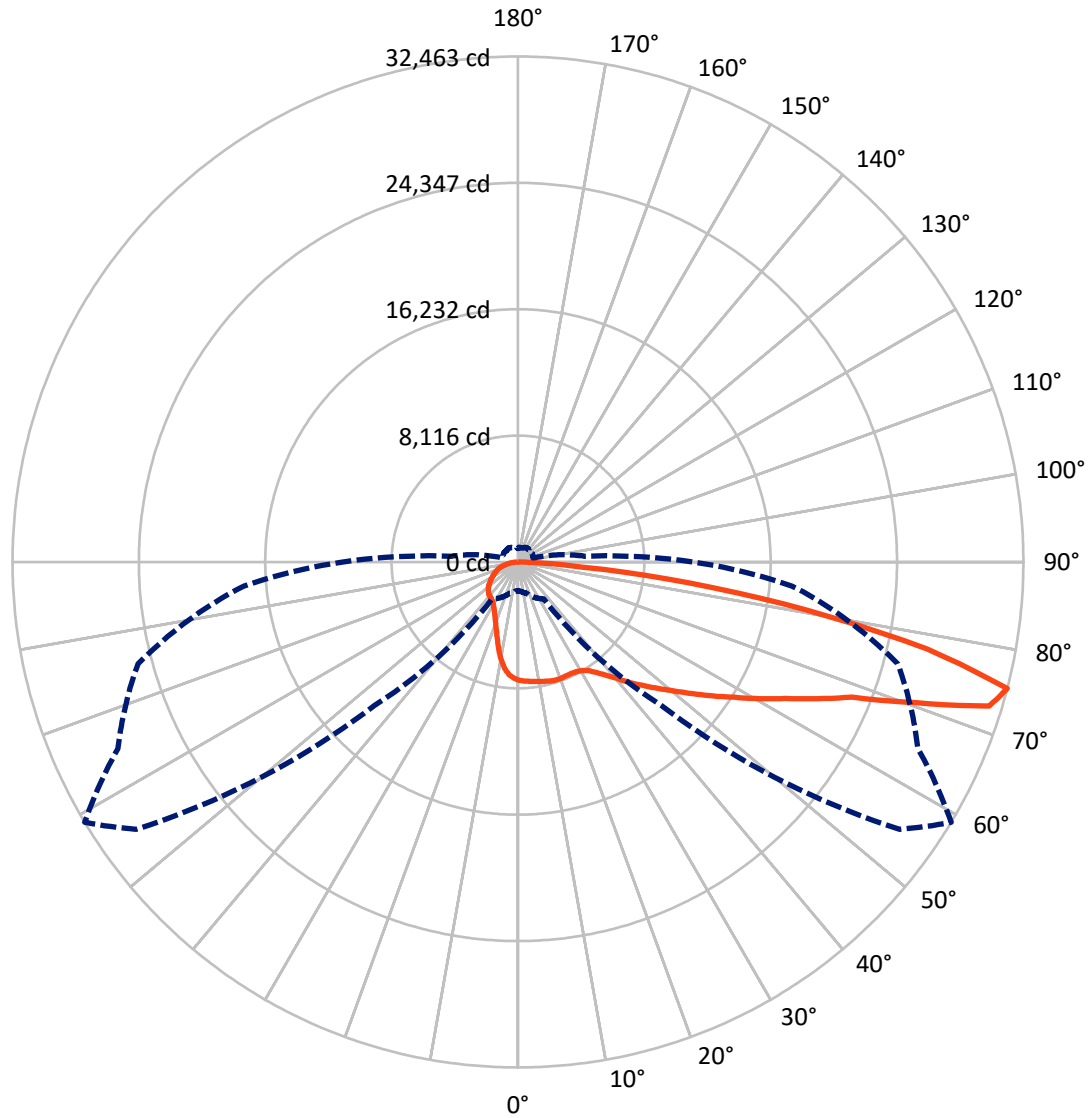
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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    | 7766.2   | 0.0    | 7766.2  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 33640.8  | 0.0    | 33640.8 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 41407.0  | 0.0    | 41407.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 681.5   | 1.6       |
| 10°-20°   | 1741.9  | 4.2       |
| 20°-30°   | 2645.8  | 6.4       |
| 30°-40°   | 3932.9  | 9.5       |
| 40°-50°   | 5848.9  | 14.1      |
| 50°-60°   | 7939.2  | 19.2      |
| 60°-70°   | 9692.5  | 23.4      |
| 70°-80°   | 7606.6  | 18.4      |
| 80°-90°   | 1317.6  | 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°    | 41407.0 | 100.0     |
| 0°-180°   | 41407.0 | 100.0     |



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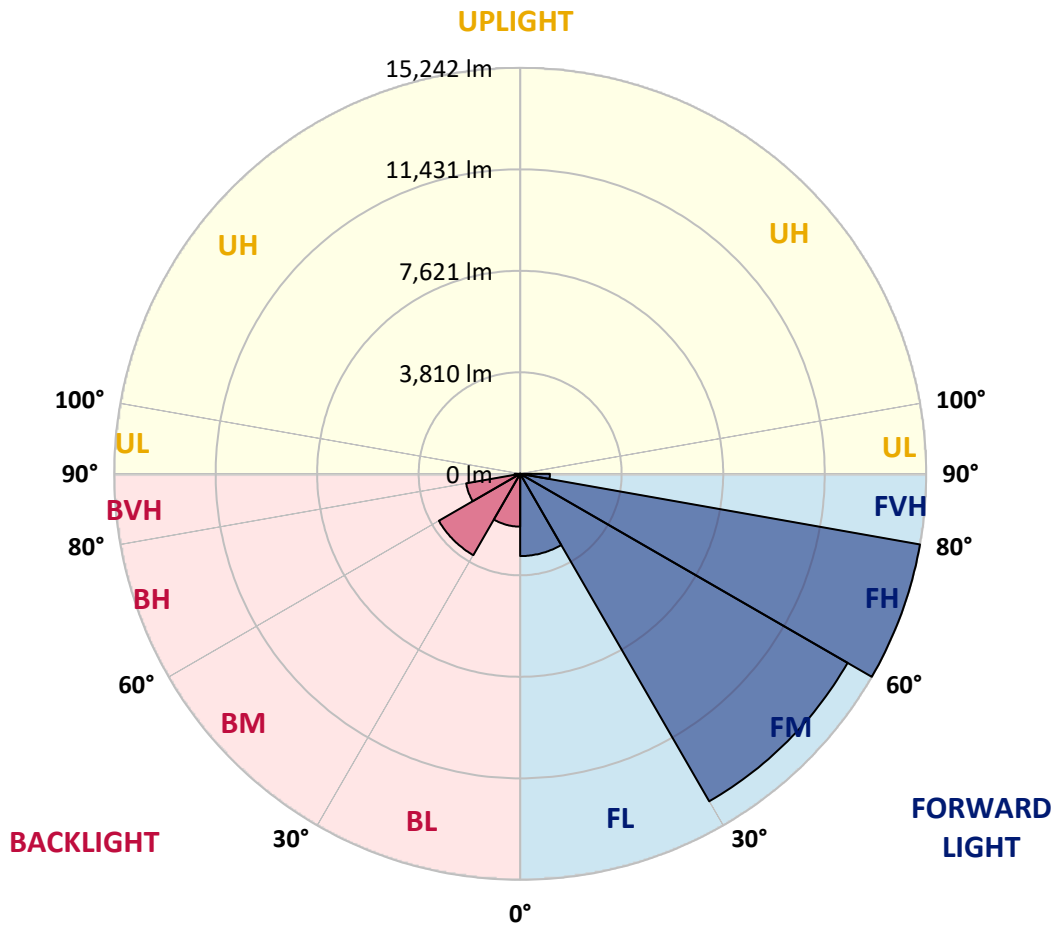
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3087.3  | 7.5       |                         |      |         |
| FM (30°-60°)   | 14196.0 | 34.3      |                         |      |         |
| FH (60°-80°)   | 15241.5 | 36.8      |                         |      | G5      |
| FVH (80°-90°)  | 1115.9  | 2.7       |                         |      | G5      |
| BL (0°-30°)    | 1981.8  | 4.8       | B3/2500                 |      |         |
| BM (30°-60°)   | 3525.1  | 8.5       | B3/5000                 |      |         |
| BH (60°-80°)   | 2057.6  | 5.0       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 201.7   | 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-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  | 7600.2  |
| 2.5°  | 7664.8  | 7638.0  | 7664.8  | 7653.6  | 7649.2  | 7640.3  | 7642.5  | 7658.1  | 7649.2  | 7660.3  |
| 5°    | 7613.5  | 7597.9  | 7624.7  | 7618.0  | 7646.9  | 7651.4  | 7680.4  | 7698.2  | 7709.3  | 7711.5  |
| 7.5°  | 7528.9  | 7513.3  | 7551.2  | 7582.3  | 7644.7  | 7662.5  | 7722.7  | 7751.6  | 7767.2  | 7794.0  |
| 10°   | 7219.3  | 7212.6  | 7306.1  | 7424.2  | 7571.2  | 7662.5  | 7753.9  | 7802.9  | 7827.4  | 7898.6  |
| 12.5° | 6671.3  | 6680.2  | 6802.7  | 7029.9  | 7324.0  | 7618.0  | 7789.5  | 7860.8  | 7898.6  | 7987.7  |
| 15°   | 6147.8  | 6145.6  | 6279.3  | 6522.1  | 6934.1  | 7422.0  | 7807.3  | 7929.8  | 7994.4  | 8125.8  |
| 17.5° | 5844.9  | 5836.0  | 5929.6  | 6114.4  | 6497.6  | 7121.3  | 7762.8  | 7967.7  | 8105.8  | 8270.6  |
| 20°   | 5789.2  | 5771.4  | 5820.4  | 5911.7  | 6183.5  | 6791.6  | 7646.9  | 7967.7  | 8194.9  | 8408.7  |
| 22.5° | 5991.9  | 5963.0  | 5942.9  | 5931.8  | 6052.1  | 6519.8  | 7515.5  | 7941.0  | 8326.3  | 8607.0  |
| 25°   | 6399.6  | 6355.0  | 6252.5  | 6152.3  | 6116.7  | 6397.3  | 7399.7  | 7934.3  | 8522.3  | 8874.3  |
| 27.5° | 7058.9  | 7003.2  | 6796.0  | 6555.5  | 6339.4  | 6459.7  | 7348.5  | 7974.4  | 8738.4  | 9157.2  |
| 30°   | 7876.4  | 7816.2  | 7555.6  | 7185.9  | 6798.3  | 6691.4  | 7413.1  | 8092.4  | 9014.6  | 9533.6  |
| 32.5° | 8609.2  | 8542.4  | 8319.6  | 7943.2  | 7419.7  | 7092.3  | 7618.0  | 8317.4  | 9449.0  | 10057.1 |
| 35°   | 9259.6  | 9181.7  | 8981.2  | 8633.7  | 8181.5  | 7655.8  | 7987.7  | 8716.1  | 10066.0 | 10908.0 |
| 37.5° | 9896.7  | 9805.4  | 9587.1  | 9219.5  | 8903.2  | 8406.5  | 8497.8  | 9228.5  | 10885.7 | 11941.5 |
| 40°   | 10609.5 | 10478.1 | 10213.0 | 9849.9  | 9542.5  | 9286.4  | 9168.3  | 9856.6  | 11718.8 | 13095.4 |
| 42.5° | 11300.0 | 11175.3 | 10859.0 | 10549.3 | 10164.0 | 10090.5 | 9945.7  | 10591.7 | 12629.8 | 14362.8 |
| 45°   | 12044.0 | 11894.7 | 11511.6 | 11119.6 | 10876.8 | 10625.1 | 10698.6 | 11326.7 | 13523.0 | 15654.7 |
| 47.5° | 12741.2 | 12574.1 | 12121.9 | 11685.4 | 11551.7 | 11075.0 | 11389.1 | 12135.3 | 14451.9 | 16964.5 |
| 50°   | 13117.6 | 12952.8 | 12576.4 | 12182.1 | 12077.4 | 11629.7 | 12137.5 | 13024.1 | 15425.3 | 18269.8 |
| 52.5° | 13431.7 | 13253.5 | 12761.2 | 12542.9 | 12511.8 | 12233.3 | 13059.7 | 14039.8 | 16398.7 | 19423.6 |
| 55°   | 13765.8 | 13567.6 | 12939.4 | 12743.4 | 12886.0 | 12910.5 | 14153.4 | 15191.4 | 17427.8 | 20548.5 |
| 57.5° | 14151.2 | 13899.5 | 13110.9 | 12912.7 | 13251.3 | 13703.5 | 15409.7 | 16385.3 | 18439.1 | 21591.0 |
| 60°   | 14514.3 | 14260.3 | 13440.6 | 13182.2 | 13645.5 | 14623.4 | 16850.9 | 17831.0 | 19584.0 | 22519.8 |
| 62.5° | 14585.5 | 14376.2 | 13703.5 | 13701.2 | 14180.1 | 15697.1 | 18557.1 | 19290.0 | 20584.1 | 23437.5 |
| 65°   | 13351.5 | 13220.1 | 12821.4 | 13681.2 | 14946.4 | 17242.9 | 20457.2 | 21156.6 | 21856.0 | 24239.4 |
| 67.5° | 10161.8 | 10179.6 | 10150.6 | 11810.1 | 14327.2 | 19463.7 | 23208.1 | 23154.7 | 23426.4 | 25139.3 |
| 70°   | 4646.5  | 4751.2  | 5432.8  | 8152.6  | 11478.2 | 19719.9 | 27756.6 | 27063.9 | 25397.7 | 26304.3 |
| 72.5° | 2510.4  | 2590.6  | 2869.0  | 3949.3  | 6900.7  | 17532.5 | 31155.8 | 31648.0 | 28019.5 | 27088.4 |
| 75°   | 1842.1  | 1886.7  | 2080.5  | 2510.4  | 2898.0  | 13030.8 | 29937.3 | 32463.3 | 28346.9 | 25259.6 |
| 77.5° | 1378.8  | 1398.9  | 1557.0  | 1989.1  | 1483.5  | 6869.5  | 23920.9 | 26885.7 | 24266.2 | 20753.4 |
| 80°   | 1000.1  | 1022.4  | 1140.5  | 1492.4  | 1040.2  | 2512.6  | 16425.4 | 18871.2 | 16619.2 | 13229.0 |
| 82.5° | 690.5   | 699.4   | 750.7   | 1015.7  | 726.2   | 975.6   | 9319.8  | 11066.1 | 9277.5  | 4642.1  |
| 85°   | 416.5   | 427.7   | 450.0   | 592.5   | 412.1   | 463.3   | 4022.8  | 4160.9  | 2773.2  | 1109.3  |
| 87.5° | 171.5   | 182.7   | 200.5   | 249.5   | 162.6   | 129.2   | 663.8   | 833.1   | 519.0   | 325.2   |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7600.2  | 0°    | 7600.2  | 7600.2 | 7600.2 | 7600.2 | 7600.2 | 7600.2 | 7600.2 | 7600.2 | 7600.2 | 7600.2 |
| 7622.4  | 2.5°  | 7611.3  | 7595.7 | 7553.4 | 7495.5 | 7442.0 | 7375.2 | 7346.2 | 7321.7 | 7299.5 | 7257.1 |
| 7682.6  | 5°    | 7658.1  | 7615.8 | 7502.2 | 7355.1 | 7188.1 | 7005.4 | 6827.2 | 6704.7 | 6600.0 | 6522.1 |
| 7751.6  | 7.5°  | 7729.4  | 7649.2 | 7442.0 | 7141.3 | 6758.2 | 6366.1 | 6012.0 | 5760.3 | 5570.9 | 5501.9 |
| 7849.6  | 10°   | 7802.9  | 7707.1 | 7346.2 | 6816.1 | 6154.5 | 5550.9 | 5080.9 | 4822.5 | 4671.0 | 4622.0 |
| 7965.5  | 12.5° | 7889.7  | 7749.4 | 7197.0 | 6363.9 | 5479.6 | 4818.0 | 4408.2 | 4256.7 | 4178.8 | 4152.0 |
| 8108.0  | 15°   | 8016.7  | 7785.0 | 6972.0 | 5798.1 | 4835.9 | 4283.4 | 4018.4 | 3913.7 | 3873.6 | 3871.4 |
| 8255.0  | 17.5° | 8112.5  | 7791.7 | 6622.3 | 5192.3 | 4341.4 | 3960.5 | 3742.2 | 3702.1 | 3728.8 | 3768.9 |
| 8399.8  | 20°   | 8219.4  | 7731.6 | 6163.4 | 4639.8 | 3993.9 | 3677.6 | 3586.2 | 3613.0 | 3677.6 | 3735.5 |
| 8591.4  | 22.5° | 8295.1  | 7622.4 | 5608.8 | 4209.9 | 3693.2 | 3515.0 | 3510.5 | 3566.2 | 3601.8 | 3630.8 |
| 8816.4  | 25°   | 8362.0  | 7437.6 | 5020.7 | 3849.1 | 3445.9 | 3417.0 | 3466.0 | 3448.1 | 3423.6 | 3448.1 |
| 9041.3  | 27.5° | 8411.0  | 7145.8 | 4495.1 | 3532.8 | 3272.2 | 3350.1 | 3321.2 | 3281.1 | 3278.9 | 3292.2 |
| 9306.4  | 30°   | 8395.4  | 6755.9 | 4062.9 | 3232.1 | 3149.7 | 3225.4 | 3156.3 | 3149.7 | 3143.0 | 3149.7 |
| 9705.1  | 32.5° | 8395.4  | 6312.7 | 3731.0 | 3024.9 | 3071.7 | 3042.7 | 3036.1 | 3020.5 | 2993.7 | 2991.5 |
| 10246.4 | 35°   | 8442.2  | 5869.4 | 3445.9 | 2913.5 | 3007.1 | 2938.0 | 2942.5 | 2904.6 | 2848.9 | 2822.2 |
| 10963.7 | 37.5° | 8537.9  | 5513.0 | 3163.0 | 2860.1 | 2893.5 | 2891.3 | 2873.4 | 2808.9 | 2710.8 | 2626.2 |
| 11859.1 | 40°   | 8769.6  | 5408.3 | 2969.2 | 2835.6 | 2840.0 | 2866.8 | 2820.0 | 2695.3 | 2472.5 | 2334.4 |
| 12767.9 | 42.5° | 9132.7  | 5584.3 | 2926.9 | 2775.4 | 2804.4 | 2831.1 | 2739.8 | 2450.2 | 2292.1 | 2209.7 |
| 13721.3 | 45°   | 9593.8  | 5891.7 | 3018.2 | 2688.6 | 2719.8 | 2766.5 | 2494.8 | 2356.7 | 2285.4 | 2287.6 |
| 14665.7 | 47.5° | 10177.4 | 6214.7 | 3187.5 | 2612.8 | 2597.2 | 2624.0 | 2332.2 | 2247.5 | 2149.5 | 2174.0 |
| 15572.3 | 50°   | 10852.3 | 6542.1 | 3347.9 | 2510.4 | 2461.4 | 2374.5 | 2227.5 | 2147.3 | 2022.6 | 1964.6 |
| 16447.7 | 52.5° | 11582.9 | 6858.4 | 3412.5 | 2385.6 | 2314.4 | 2214.1 | 2156.2 | 2058.2 | 1906.7 | 1810.9 |
| 17274.1 | 55°   | 12275.6 | 7145.8 | 3341.2 | 2236.4 | 2167.3 | 2089.4 | 2080.5 | 2020.3 | 1857.7 | 1724.1 |
| 18009.2 | 57.5° | 12930.5 | 7386.3 | 3163.0 | 2084.9 | 2018.1 | 1971.3 | 2031.5 | 2002.5 | 1797.6 | 1626.1 |
| 18704.2 | 60°   | 13485.2 | 7551.2 | 2904.6 | 1931.2 | 1884.4 | 1859.9 | 1951.3 | 1942.4 | 1712.9 | 1521.4 |
| 19327.8 | 62.5° | 13926.2 | 7615.8 | 2619.5 | 1784.2 | 1773.1 | 1728.5 | 1839.9 | 1839.9 | 1606.0 | 1418.9 |
| 19875.8 | 65°   | 14271.5 | 7553.4 | 2329.9 | 1639.4 | 1661.7 | 1594.9 | 1704.0 | 1690.7 | 1492.4 | 1327.6 |
| 20506.2 | 67.5° | 14576.6 | 7348.5 | 2009.2 | 1496.9 | 1548.1 | 1463.5 | 1561.5 | 1530.3 | 1367.7 | 1236.3 |
| 21051.9 | 70°   | 14712.5 | 6871.8 | 1643.9 | 1354.3 | 1416.7 | 1334.3 | 1418.9 | 1361.0 | 1227.3 | 1138.2 |
| 20452.7 | 72.5° | 13621.0 | 5711.3 | 1294.2 | 1205.1 | 1258.5 | 1191.7 | 1265.2 | 1198.4 | 1075.9 | 1035.8 |
| 17661.7 | 75°   | 11268.8 | 4285.7 | 995.7  | 1042.5 | 1082.6 | 1031.3 | 1080.3 | 1031.3 | 919.9  | 948.9  |
| 13046.4 | 77.5° | 8183.8  | 2893.5 | 761.8  | 870.9  | 888.8  | 862.0  | 904.4  | 848.7  | 748.4  | 741.8  |
| 6502.0  | 80°   | 4069.6  | 1695.1 | 597.0  | 688.3  | 681.6  | 663.8  | 712.8  | 686.1  | 601.4  | 637.1  |
| 1755.3  | 82.5° | 1178.3  | 726.2  | 434.4  | 483.4  | 470.0  | 474.5  | 510.1  | 523.5  | 784.1  | 777.4  |
| 545.7   | 85°   | 369.8   | 285.1  | 260.6  | 269.5  | 256.2  | 262.8  | 300.7  | 597.0  | 552.4  | 323.0  |
| 169.3   | 87.5° | 95.8    | 98.0   | 64.6   | 69.1   | 71.3   | 84.6   | 95.8   | 363.1  | 173.7  | 113.6  |
| 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> |
|-------------|
| 7600.2      |
| 7237.1      |
| 6457.5      |
| 5381.6      |
| 4546.3      |
| 4158.7      |
| 3880.3      |
| 3784.5      |
| 3755.5      |
| 3646.4      |
| 3463.7      |
| 3314.5      |
| 3174.2      |
| 3020.5      |
| 2848.9      |
| 2655.2      |
| 2352.2      |
| 2209.7      |
| 2298.8      |
| 2236.4      |
| 1980.2      |
| 1808.7      |
| 1724.1      |
| 1617.2      |
| 1514.7      |
| 1412.2      |
| 1318.7      |
| 1227.3      |
| 1120.4      |
| 1002.4      |
| 866.5       |
| 708.3       |
| 630.4       |
| 795.2       |
| 349.7       |
| 120.3       |
| 0.0         |

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