

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: P942277

Luminaire Tested: **GALN-SB6A-950-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6A-950-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

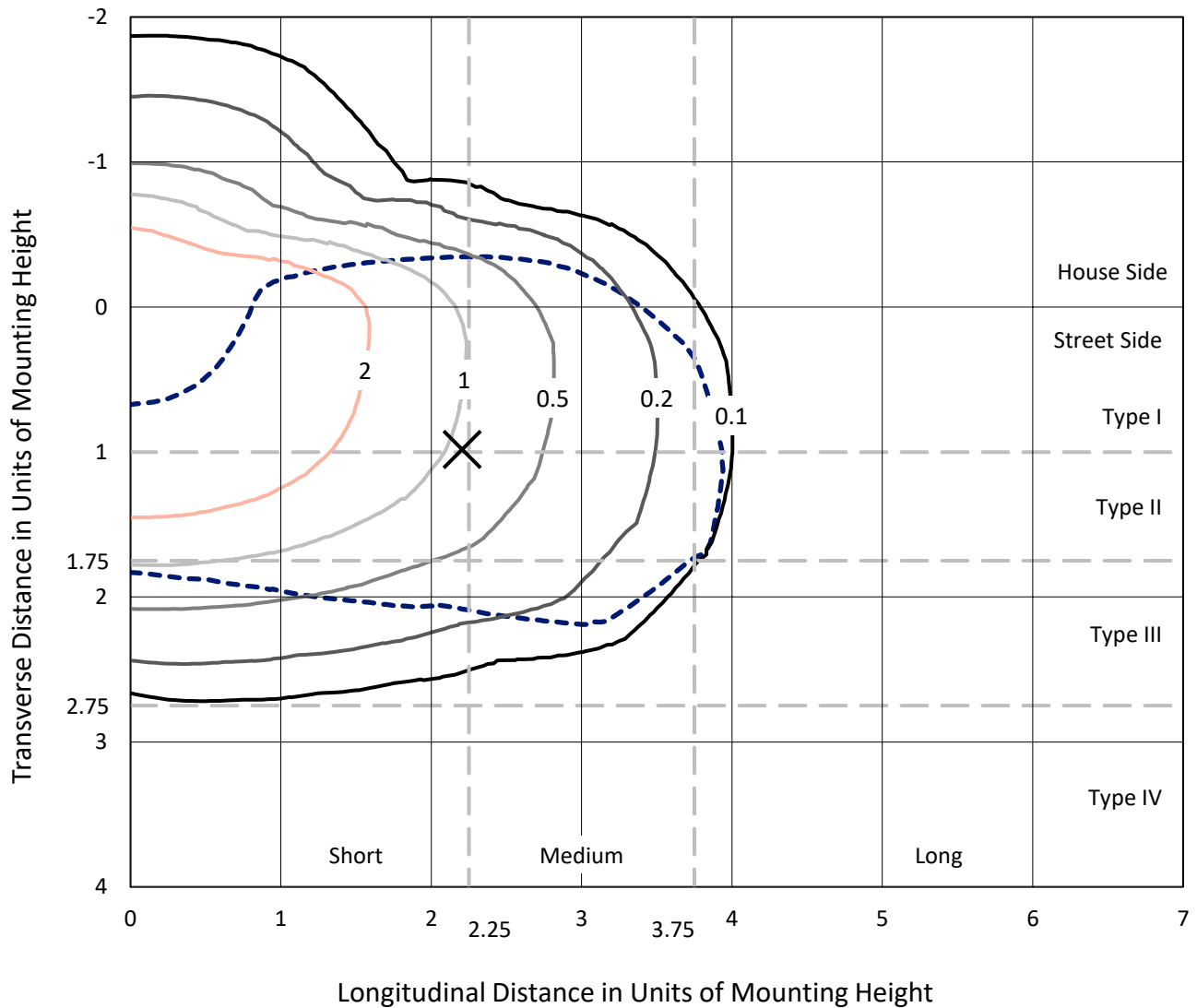
Lumens per Lamp: N/A  
Luminaire Lumens: 18936 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 170.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

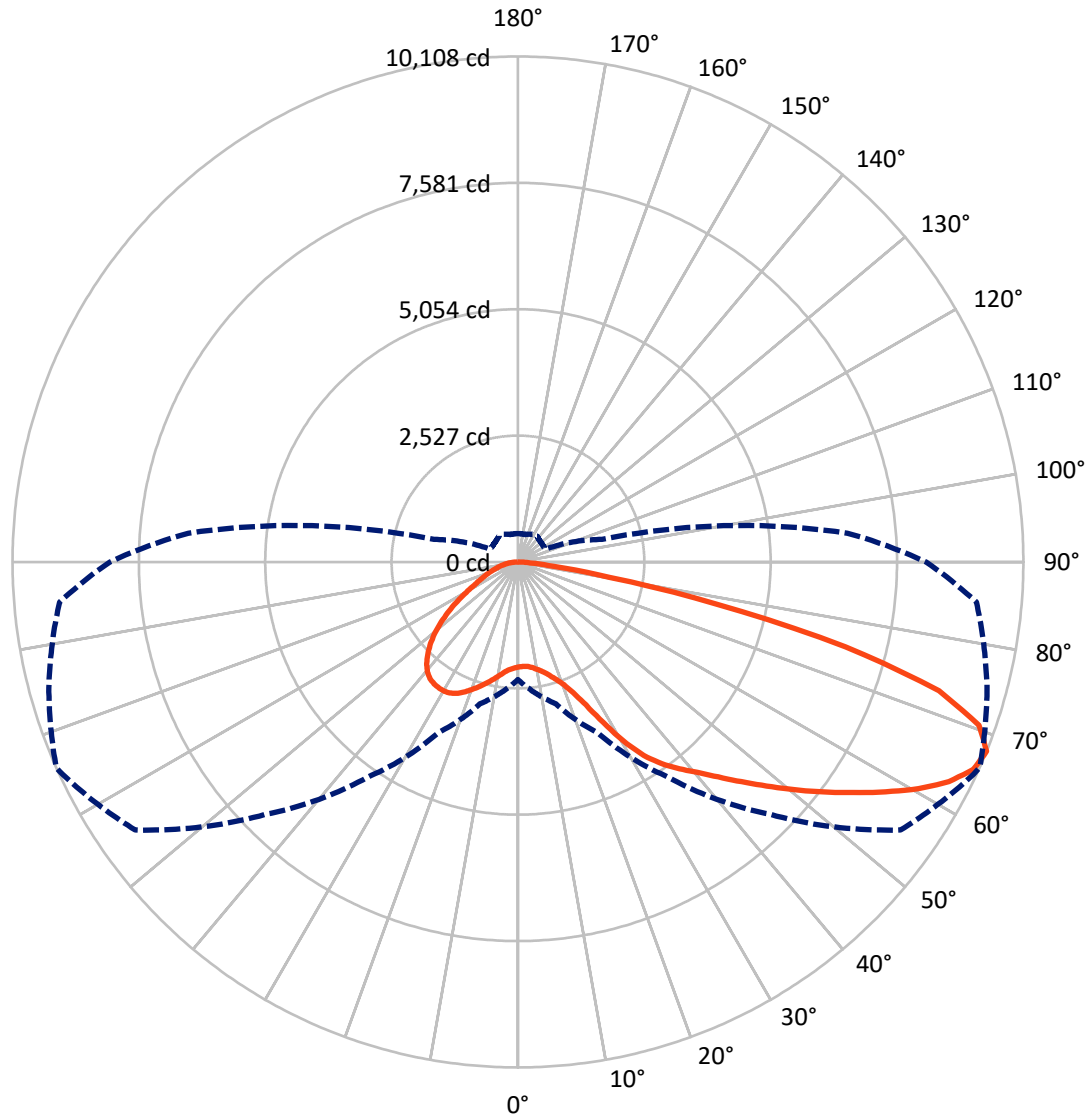
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4708.4   | 0.0    | 4708.4  |
|                    | % Fixture | 24.9     | 0.0    | 24.9    |
| <b>Street Side</b> | Lumens    | 14227.6  | 0.0    | 14227.6 |
|                    | % Fixture | 75.1     | 0.0    | 75.1    |
| <b>Total</b>       | Lumens    | 18936.0  | 0.0    | 18936.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 208.2   | 1.1       |
| 10°-20°   | 688.0   | 3.6       |
| 20°-30°   | 1326.0  | 7.0       |
| 30°-40°   | 2325.0  | 12.3      |
| 40°-50°   | 3456.5  | 18.3      |
| 50°-60°   | 4381.5  | 23.1      |
| 60°-70°   | 4287.2  | 22.6      |
| 70°-80°   | 2045.0  | 10.8      |
| 80°-90°   | 218.6   | 1.2       |
| 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°    | 18936.0 | 100.0     |
| 0°-180°   | 18936.0 | 100.0     |

**Coefficient of Utilization**



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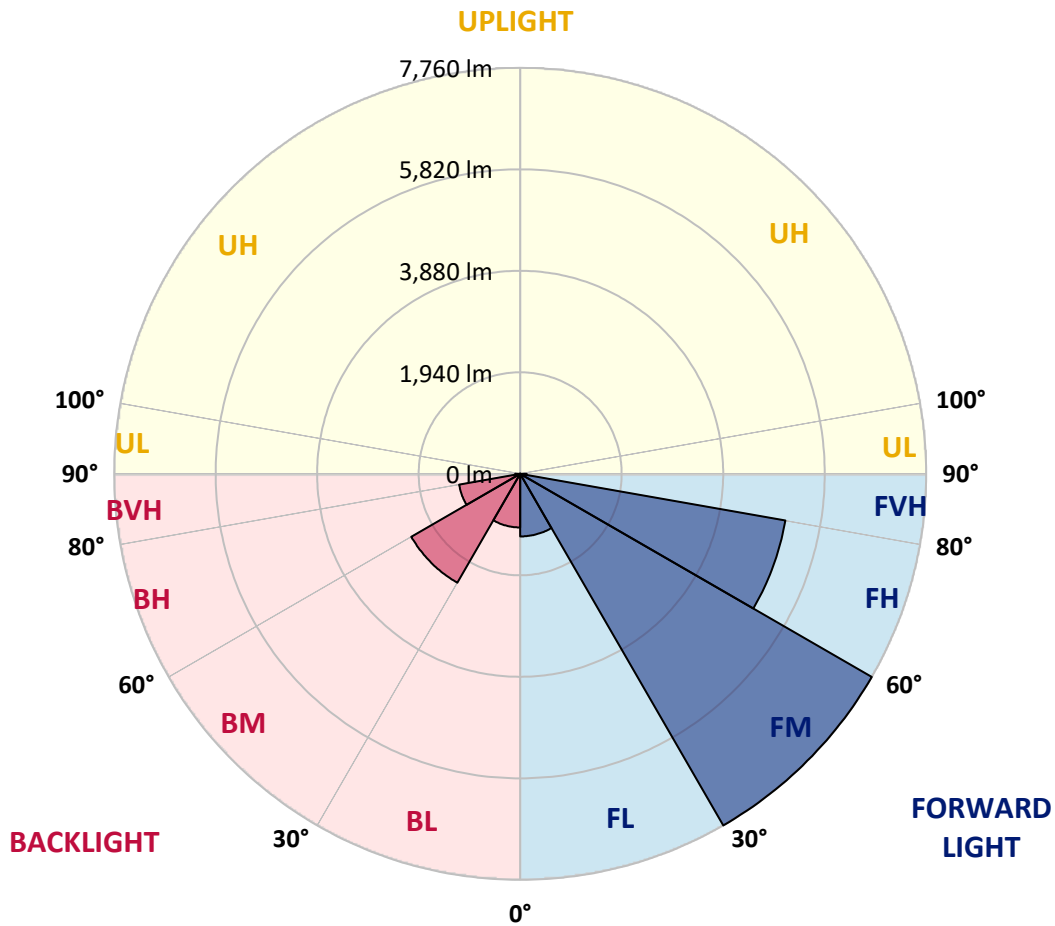
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1196.6 | 6.3       |                         |      |         |
| FM (30°-60°)   | 7759.8 | 41.0      |                         |      |         |
| FH (60°-80°)   | 5147.3 | 27.2      |                         |      | G3/7500 |
| FVH (80°-90°)  | 123.9  | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 1025.7 | 5.4       | B3/2500                 |      |         |
| BM (30°-60°)   | 2403.2 | 12.7      | B2/2500                 |      |         |
| BH (60°-80°)   | 1184.9 | 6.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 94.6   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 66°     | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0°    | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3  | 2100.3  | 2100.3 |
| 2.5°  | 2078.4 | 2090.3 | 2087.3 | 2082.3 | 2081.3 | 2083.3 | 2086.3 | 2089.3  | 2088.3  | 2093.3 |
| 5°    | 2072.4 | 2084.3 | 2083.3 | 2083.3 | 2087.3 | 2095.3 | 2100.3 | 2105.2  | 2100.3  | 2106.2 |
| 7.5°  | 2076.4 | 2085.3 | 2089.3 | 2093.3 | 2103.2 | 2118.2 | 2130.1 | 2141.0  | 2135.1  | 2142.0 |
| 10°   | 2127.1 | 2134.1 | 2138.1 | 2138.1 | 2145.0 | 2161.9 | 2173.9 | 2193.8  | 2188.8  | 2199.7 |
| 12.5° | 2219.6 | 2226.6 | 2226.6 | 2222.6 | 2227.6 | 2238.5 | 2242.5 | 2264.4  | 2255.5  | 2273.4 |
| 15°   | 2333.1 | 2347.0 | 2336.0 | 2329.1 | 2331.1 | 2342.0 | 2341.0 | 2357.9  | 2349.0  | 2363.9 |
| 17.5° | 2458.4 | 2476.3 | 2458.4 | 2457.4 | 2453.4 | 2465.4 | 2466.4 | 2481.3  | 2465.4  | 2476.3 |
| 20°   | 2606.7 | 2631.5 | 2616.6 | 2621.6 | 2612.6 | 2617.6 | 2622.6 | 2644.5  | 2619.6  | 2627.6 |
| 22.5° | 2815.6 | 2845.4 | 2829.5 | 2848.4 | 2842.5 | 2838.5 | 2837.5 | 2876.3  | 2837.5  | 2840.5 |
| 25°   | 3120.0 | 3155.9 | 3128.0 | 3153.9 | 3153.9 | 3166.8 | 3181.7 | 3231.5  | 3166.8  | 3147.9 |
| 27.5° | 3569.7 | 3605.5 | 3550.8 | 3566.7 | 3561.8 | 3593.6 | 3577.7 | 3701.1  | 3631.4  | 3600.6 |
| 30°   | 4111.0 | 4174.6 | 4071.2 | 4067.2 | 4062.2 | 4113.0 | 4135.8 | 4217.4  | 4146.8  | 4115.9 |
| 32.5° | 4696.0 | 4762.6 | 4639.3 | 4603.4 | 4584.5 | 4615.4 | 4596.5 | 4662.1  | 4613.4  | 4565.6 |
| 35°   | 5314.8 | 5380.5 | 5263.1 | 5193.4 | 5117.8 | 5053.1 | 4985.5 | 5002.4  | 4956.6  | 4884.0 |
| 37.5° | 5899.8 | 6020.2 | 5895.8 | 5821.2 | 5681.9 | 5555.6 | 5366.5 | 5287.9  | 5245.2  | 5178.5 |
| 40°   | 6495.8 | 6564.4 | 6469.9 | 6406.2 | 6255.0 | 6057.0 | 5754.6 | 5588.4  | 5530.7  | 5466.0 |
| 42.5° | 6934.5 | 7000.2 | 6949.4 | 6905.7 | 6787.3 | 6557.4 | 6166.4 | 5958.5  | 5874.9  | 5802.3 |
| 45°   | 7282.7 | 7331.5 | 7299.6 | 7315.6 | 7264.8 | 7042.0 | 6593.3 | 6355.5  | 6268.9  | 6180.4 |
| 47.5° | 7423.0 | 7474.8 | 7525.5 | 7620.0 | 7706.6 | 7542.4 | 7051.9 | 6785.3  | 6693.7  | 6603.2 |
| 50°   | 7407.1 | 7459.8 | 7607.1 | 7808.0 | 8076.7 | 8022.0 | 7535.4 | 7242.9  | 7158.4  | 7054.9 |
| 52.5° | 7279.7 | 7339.4 | 7528.5 | 7862.8 | 8290.6 | 8381.1 | 8027.9 | 7715.5  | 7635.9  | 7512.6 |
| 55°   | 6945.5 | 6981.3 | 7264.8 | 7738.4 | 8341.3 | 8631.8 | 8510.5 | 8218.9  | 8139.3  | 7967.2 |
| 57.5° | 6325.6 | 6377.4 | 6790.3 | 7403.1 | 8214.0 | 8802.0 | 8934.3 | 8748.2  | 8671.6  | 8423.9 |
| 60°   | 5516.8 | 5599.3 | 6071.9 | 6840.0 | 7889.6 | 8801.0 | 9319.3 | 9268.6  | 9204.9  | 8873.6 |
| 62.5° | 4601.5 | 4697.0 | 5151.6 | 6044.1 | 7322.5 | 8551.2 | 9560.1 | 9704.3  | 9671.5  | 9288.5 |
| 65°   | 3533.9 | 3599.6 | 4052.3 | 5014.3 | 6440.0 | 8015.0 | 9587.9 | 10001.8 | 10007.8 | 9603.9 |
| 67.5° | 2353.0 | 2542.0 | 2935.0 | 3762.7 | 5258.1 | 7138.5 | 9343.2 | 10050.6 | 10108.3 | 9712.3 |
| 70°   | 1148.1 | 1396.9 | 1781.9 | 2445.5 | 3762.7 | 5794.3 | 8703.5 | 9650.6  | 9779.0  | 9395.9 |
| 72.5° | 476.6  | 557.1  | 767.1  | 1206.8 | 2159.9 | 3910.0 | 7418.0 | 8566.2  | 8803.9  | 8325.4 |
| 75°   | 321.4  | 348.2  | 438.8  | 618.8  | 984.0  | 1928.1 | 5349.6 | 6387.3  | 6770.4  | 6287.8 |
| 77.5° | 247.7  | 264.6  | 319.4  | 432.8  | 585.0  | 729.3  | 2863.3 | 3849.3  | 4047.3  | 3746.8 |
| 80°   | 195.0  | 207.9  | 238.8  | 315.4  | 414.9  | 390.0  | 976.0  | 1744.1  | 1858.5  | 1559.0 |
| 82.5° | 169.1  | 174.1  | 171.1  | 213.9  | 275.6  | 227.8  | 320.4  | 643.7   | 710.4   | 515.4  |
| 85°   | 122.4  | 136.3  | 142.3  | 132.3  | 146.3  | 115.4  | 131.3  | 227.8   | 250.7   | 223.9  |
| 87.5° | 49.7   | 73.6   | 90.5   | 85.6   | 53.7   | 32.8   | 40.8   | 66.7    | 76.6    | 83.6   |
| 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°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2100.3 | 0°    | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 | 2100.3 |
| 2101.2 | 2.5°  | 2102.2 | 2109.2 | 2114.2 | 2120.2 | 2124.1 | 2130.1 | 2142.0 | 2149.0 | 2150.0 | 2155.0 |
| 2117.2 | 5°    | 2121.1 | 2131.1 | 2142.0 | 2158.0 | 2175.9 | 2190.8 | 2213.7 | 2229.6 | 2235.6 | 2240.5 |
| 2156.0 | 7.5°  | 2161.9 | 2175.9 | 2195.8 | 2223.6 | 2249.5 | 2269.4 | 2297.2 | 2316.1 | 2335.1 | 2342.0 |
| 2217.7 | 10°   | 2222.6 | 2242.5 | 2271.4 | 2309.2 | 2337.0 | 2362.9 | 2391.8 | 2407.7 | 2426.6 | 2434.5 |
| 2291.3 | 12.5° | 2298.2 | 2319.1 | 2356.9 | 2409.7 | 2435.5 | 2453.4 | 2463.4 | 2459.4 | 2463.4 | 2470.4 |
| 2379.8 | 15°   | 2384.8 | 2407.7 | 2450.5 | 2507.2 | 2525.1 | 2509.2 | 2487.3 | 2467.4 | 2464.4 | 2466.4 |
| 2487.3 | 17.5° | 2487.3 | 2504.2 | 2553.9 | 2601.7 | 2588.8 | 2523.1 | 2475.3 | 2443.5 | 2427.6 | 2422.6 |
| 2624.6 | 20°   | 2630.5 | 2630.5 | 2671.3 | 2701.2 | 2614.6 | 2503.2 | 2428.6 | 2376.8 | 2344.0 | 2330.1 |
| 2811.6 | 22.5° | 2804.6 | 2788.7 | 2814.6 | 2793.7 | 2609.6 | 2447.5 | 2344.0 | 2254.5 | 2204.7 | 2184.8 |
| 3073.3 | 25°   | 3025.5 | 3006.6 | 2999.7 | 2870.3 | 2573.8 | 2358.9 | 2190.8 | 2082.3 | 2038.6 | 2027.6 |
| 3450.3 | 27.5° | 3358.8 | 3311.1 | 3220.5 | 2912.1 | 2508.2 | 2219.6 | 2011.7 | 1911.2 | 1886.3 | 1887.3 |
| 3934.9 | 30°   | 3802.5 | 3707.0 | 3485.2 | 2919.1 | 2400.7 | 2022.6 | 1828.6 | 1757.0 | 1745.1 | 1750.0 |
| 4341.8 | 32.5° | 4213.4 | 4122.9 | 3755.8 | 2887.2 | 2235.6 | 1829.6 | 1664.5 | 1616.7 | 1598.8 | 1604.8 |
| 4652.2 | 35°   | 4535.8 | 4510.9 | 4006.5 | 2842.5 | 2032.6 | 1648.6 | 1517.2 | 1476.4 | 1441.6 | 1433.7 |
| 4944.7 | 37.5° | 4840.2 | 4830.3 | 4194.5 | 2779.8 | 1831.6 | 1520.2 | 1398.8 | 1345.1 | 1294.4 | 1266.5 |
| 5268.0 | 40°   | 5174.5 | 5164.6 | 4317.9 | 2683.3 | 1653.5 | 1408.8 | 1292.4 | 1221.7 | 1159.1 | 1108.3 |
| 5634.2 | 42.5° | 5550.6 | 5491.9 | 4376.6 | 2545.0 | 1502.3 | 1314.3 | 1205.8 | 1110.3 | 1027.7 | 981.0  |
| 6048.1 | 45°   | 5961.5 | 5829.2 | 4375.6 | 2368.9 | 1375.0 | 1227.7 | 1113.3 | 978.0  | 901.4  | 857.6  |
| 6472.9 | 47.5° | 6397.3 | 6151.5 | 4321.9 | 2173.9 | 1251.6 | 1132.2 | 970.0  | 866.6  | 815.8  | 789.0  |
| 6934.5 | 50°   | 6847.0 | 6453.0 | 4230.4 | 1950.0 | 1125.2 | 1023.8 | 880.5  | 809.9  | 771.1  | 746.2  |
| 7392.2 | 52.5° | 7269.8 | 6726.6 | 4119.9 | 1696.3 | 996.9  | 918.3  | 840.7  | 786.0  | 745.2  | 717.3  |
| 7835.9 | 55°   | 7662.8 | 6962.4 | 3963.7 | 1436.6 | 892.4  | 847.7  | 821.8  | 776.0  | 729.3  | 696.4  |
| 8286.6 | 57.5° | 8012.0 | 7115.6 | 3694.1 | 1192.9 | 817.8  | 798.9  | 801.9  | 759.1  | 705.4  | 677.5  |
| 8730.3 | 60°   | 8302.5 | 7228.0 | 3295.1 | 967.1  | 757.1  | 751.2  | 771.1  | 727.3  | 664.6  | 632.8  |
| 9105.4 | 62.5° | 8476.6 | 7226.0 | 2805.6 | 791.9  | 705.4  | 707.4  | 730.3  | 687.5  | 623.8  | 594.0  |
| 9301.4 | 65°   | 8461.7 | 7048.9 | 2268.4 | 677.5  | 655.6  | 657.6  | 687.5  | 643.7  | 590.0  | 572.1  |
| 9202.9 | 67.5° | 8162.2 | 6617.1 | 1740.1 | 602.9  | 600.9  | 609.9  | 644.7  | 613.9  | 569.1  | 567.1  |
| 8615.9 | 70°   | 7351.4 | 5720.7 | 1253.6 | 543.2  | 544.2  | 557.1  | 602.9  | 595.0  | 558.1  | 562.1  |
| 7243.9 | 72.5° | 5894.8 | 4361.7 | 841.7  | 480.5  | 481.5  | 502.4  | 563.1  | 580.0  | 547.2  | 599.9  |
| 5139.7 | 75°   | 3925.9 | 2720.1 | 541.2  | 413.9  | 414.9  | 441.7  | 528.3  | 551.2  | 517.4  | 597.9  |
| 2674.3 | 77.5° | 1886.3 | 1222.7 | 392.0  | 348.2  | 348.2  | 373.1  | 456.7  | 493.5  | 440.7  | 464.6  |
| 859.6  | 80°   | 651.7  | 459.6  | 308.4  | 280.6  | 274.6  | 291.5  | 385.0  | 427.8  | 380.1  | 350.2  |
| 280.6  | 82.5° | 256.7  | 238.8  | 247.7  | 217.9  | 198.0  | 208.9  | 299.5  | 353.2  | 279.6  | 252.7  |
| 158.2  | 85°   | 147.2  | 155.2  | 175.1  | 144.3  | 114.4  | 128.3  | 219.9  | 253.7  | 210.9  | 186.0  |
| 51.7   | 87.5° | 39.8   | 54.7   | 80.6   | 74.6   | 51.7   | 54.7   | 104.5  | 140.3  | 121.4  | 93.5   |
| 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> |
| 2100.3      |
| 2154.0      |
| 2239.5      |
| 2343.0      |
| 2438.5      |
| 2472.3      |
| 2473.3      |
| 2429.6      |
| 2327.1      |
| 2181.8      |
| 2029.6      |
| 1890.3      |
| 1767.0      |
| 1612.7      |
| 1439.6      |
| 1267.5      |
| 1113.3      |
| 984.0       |
| 855.6       |
| 783.0       |
| 737.2       |
| 705.4       |
| 683.5       |
| 659.6       |
| 618.8       |
| 585.0       |
| 571.1       |
| 570.1       |
| 561.1       |
| 607.9       |
| 602.9       |
| 425.8       |
| 328.3       |
| 251.7       |
| 190.0       |
| 96.5        |
| 0.0         |

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