

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: P940804

Luminaire Tested: **GALN-SB4A-750-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940804  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4A-750-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

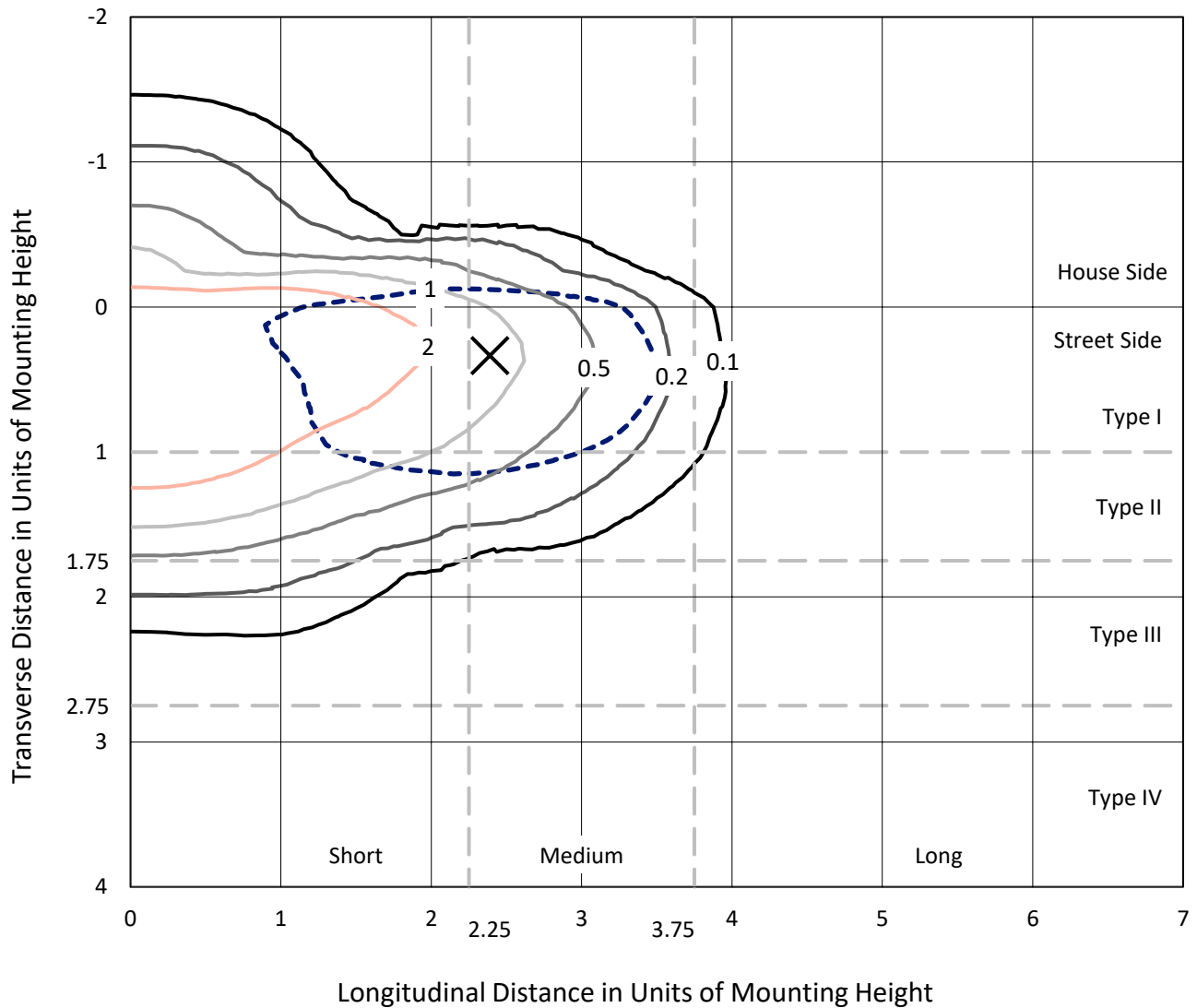
Lumens per Lamp: N/A  
Luminaire Lumens: 13889 lumens  
Efficiency: N/A  
Efficacy: 121.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

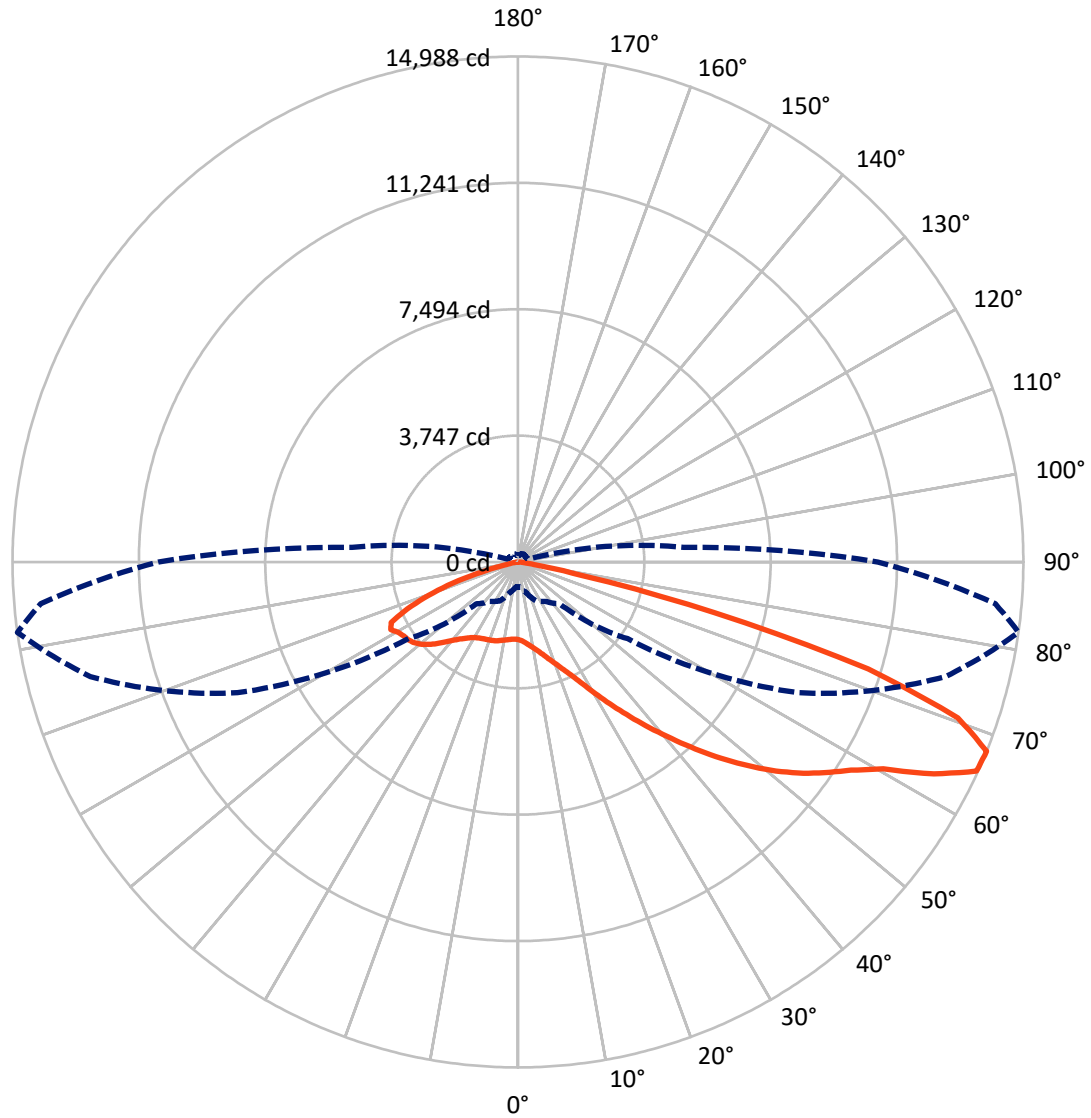
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2515.9   | 0.0    | 2515.9  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 11373.1  | 0.0    | 11373.1 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 13889.0  | 0.0    | 13889.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 205.0   | 1.5       |
| 10°-20°   | 532.7   | 3.8       |
| 20°-30°   | 853.2   | 6.1       |
| 30°-40°   | 1508.8  | 10.9      |
| 40°-50°   | 2643.5  | 19.0      |
| 50°-60°   | 3525.7  | 25.4      |
| 60°-70°   | 3282.2  | 23.6      |
| 70°-80°   | 1259.7  | 9.1       |
| 80°-90°   | 78.2    | 0.6       |
| 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°    | 13889.0 | 100.0     |
| 0°-180°   | 13889.0 | 100.0     |

**Coefficient of Utilization**



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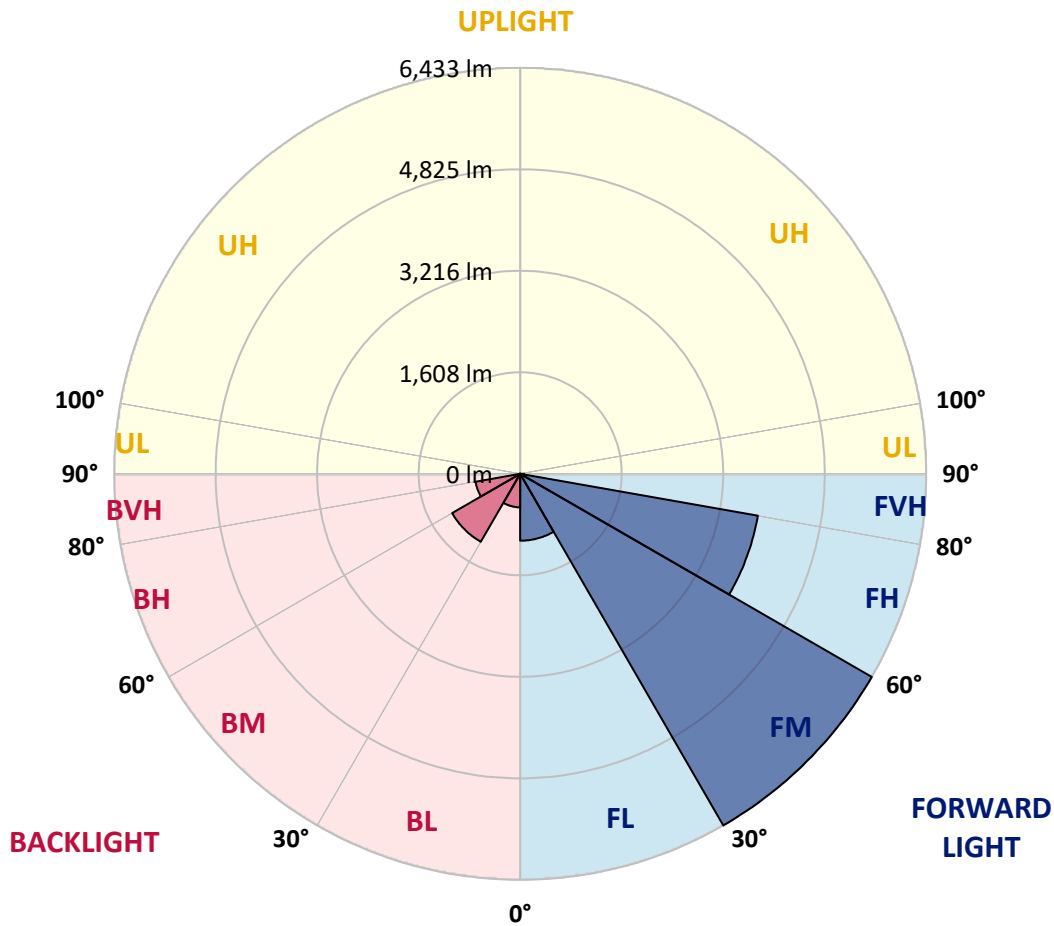
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1059.6 | 7.6       |                         |      |         |
| FM (30°-60°)   | 6432.8 | 46.3      |                         |      |         |
| FH (60°-80°)   | 3823.9 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 56.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 531.4  | 3.8       | B2/1000                 |      |         |
| BM (30°-60°)   | 1245.1 | 9.0       | B2/2500                 |      |         |
| BH (60°-80°)   | 718.1  | 5.2       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 21.4   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 82°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9  | 2300.9  | 2300.9  |
| 2.5°  | 2431.9 | 2445.9 | 2437.9 | 2433.9 | 2426.9 | 2416.9 | 2408.9 | 2383.9  | 2357.9  | 2340.9  |
| 5°    | 2480.9 | 2494.9 | 2493.9 | 2497.9 | 2502.9 | 2505.9 | 2503.9 | 2475.9  | 2438.9  | 2409.9  |
| 7.5°  | 2438.9 | 2454.9 | 2467.9 | 2487.9 | 2522.9 | 2559.9 | 2577.9 | 2571.9  | 2533.9  | 2493.9  |
| 10°   | 2319.9 | 2336.9 | 2367.9 | 2414.9 | 2488.9 | 2568.9 | 2635.9 | 2666.9  | 2642.9  | 2598.9  |
| 12.5° | 2101.9 | 2118.9 | 2179.9 | 2281.9 | 2405.9 | 2544.9 | 2672.9 | 2755.9  | 2761.9  | 2717.9  |
| 15°   | 1856.9 | 1873.9 | 1938.9 | 2066.9 | 2255.9 | 2478.9 | 2692.9 | 2849.9  | 2902.9  | 2864.9  |
| 17.5° | 1705.0 | 1720.0 | 1769.0 | 1871.9 | 2068.9 | 2346.9 | 2685.9 | 2949.9  | 3070.9  | 3040.9  |
| 20°   | 1659.0 | 1672.0 | 1695.0 | 1767.0 | 1930.9 | 2209.9 | 2639.9 | 3043.9  | 3251.9  | 3234.9  |
| 22.5° | 1708.0 | 1720.0 | 1727.0 | 1759.0 | 1861.9 | 2119.9 | 2581.9 | 3139.9  | 3461.9  | 3463.9  |
| 25°   | 1821.0 | 1833.0 | 1825.0 | 1844.9 | 1889.9 | 2091.9 | 2559.9 | 3252.9  | 3725.9  | 3747.9  |
| 27.5° | 2006.9 | 2007.9 | 1988.9 | 1987.9 | 1994.9 | 2133.9 | 2582.9 | 3373.9  | 4058.9  | 4099.9  |
| 30°   | 2379.9 | 2364.9 | 2291.9 | 2212.9 | 2176.9 | 2259.9 | 2646.9 | 3516.9  | 4451.9  | 4524.9  |
| 32.5° | 2954.9 | 2932.9 | 2798.9 | 2609.9 | 2419.9 | 2462.9 | 2761.9 | 3679.9  | 4879.9  | 5011.9  |
| 35°   | 3578.9 | 3572.9 | 3432.9 | 3151.9 | 2819.9 | 2751.9 | 2948.9 | 3893.9  | 5346.9  | 5556.8  |
| 37.5° | 4158.9 | 4155.9 | 4075.9 | 3744.9 | 3340.9 | 3154.9 | 3248.9 | 4173.9  | 5846.8  | 6150.8  |
| 40°   | 4688.9 | 4697.9 | 4617.9 | 4321.9 | 3914.9 | 3671.9 | 3656.9 | 4519.9  | 6402.8  | 6797.8  |
| 42.5° | 5146.9 | 5156.9 | 5075.9 | 4856.9 | 4481.9 | 4243.9 | 4157.9 | 4943.9  | 6945.8  | 7492.8  |
| 45°   | 5457.9 | 5519.8 | 5507.8 | 5332.9 | 5063.9 | 4816.9 | 4759.9 | 5475.9  | 7564.8  | 8229.8  |
| 47.5° | 5545.8 | 5602.8 | 5692.8 | 5716.8 | 5552.8 | 5309.9 | 5377.9 | 6116.8  | 8190.8  | 8967.8  |
| 50°   | 5328.9 | 5381.9 | 5568.8 | 5817.8 | 5931.8 | 5856.8 | 5978.8 | 6803.8  | 8831.8  | 9703.7  |
| 52.5° | 4900.9 | 4954.9 | 5190.9 | 5584.8 | 6049.8 | 6285.8 | 6581.8 | 7480.8  | 9452.7  | 10400.7 |
| 55°   | 4281.9 | 4338.9 | 4641.9 | 5087.9 | 5824.8 | 6462.8 | 7084.8 | 8156.8  | 10021.7 | 11027.7 |
| 57.5° | 3439.9 | 3481.9 | 3796.9 | 4420.9 | 5258.9 | 6286.8 | 7455.8 | 8894.8  | 10557.7 | 11643.7 |
| 60°   | 2241.9 | 2278.9 | 2644.9 | 3340.9 | 4320.9 | 5698.8 | 7529.8 | 9717.7  | 11269.7 | 12444.7 |
| 62.5° | 1491.0 | 1516.0 | 1733.0 | 2243.9 | 3042.9 | 4569.9 | 7096.8 | 10374.7 | 12313.7 | 13838.6 |
| 65°   | 1023.0 | 1048.0 | 1265.0 | 1621.0 | 1965.9 | 3022.9 | 5851.8 | 10287.7 | 13259.6 | 14945.6 |
| 67.5° | 730.0  | 751.0  | 935.0  | 1271.0 | 1423.0 | 1756.0 | 3966.9 | 9175.7  | 13123.6 | 14987.6 |
| 70°   | 523.0  | 535.0  | 687.0  | 990.0  | 1131.0 | 1055.0 | 2205.9 | 7017.8  | 11490.7 | 13839.6 |
| 72.5° | 366.0  | 370.0  | 477.0  | 754.0  | 911.0  | 770.0  | 1050.0 | 4678.9  | 8690.8  | 10862.7 |
| 75°   | 248.0  | 253.0  | 321.0  | 553.0  | 731.0  | 588.0  | 556.0  | 2508.9  | 5101.9  | 6012.8  |
| 77.5° | 152.0  | 154.0  | 207.0  | 378.0  | 547.0  | 448.0  | 358.0  | 1063.0  | 1973.9  | 1937.9  |
| 80°   | 86.0   | 86.0   | 132.0  | 235.0  | 373.0  | 289.0  | 251.0  | 452.0   | 625.0   | 549.0   |
| 82.5° | 48.0   | 49.0   | 96.0   | 146.0  | 247.0  | 171.0  | 138.0  | 209.0   | 270.0   | 239.0   |
| 85°   | 20.0   | 22.0   | 59.0   | 69.0   | 118.0  | 85.0   | 56.0   | 88.0    | 100.0   | 89.0    |
| 87.5° | 2.0    | 3.0    | 18.0   | 13.0   | 14.0   | 17.0   | 8.0    | 17.0    | 14.0    | 14.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2300.9  | 0°    | 2300.9  | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 | 2300.9 |
| 2334.9  | 2.5°  | 2315.9  | 2300.9 | 2262.9 | 2218.9 | 2160.9 | 2132.9 | 2094.9 | 2068.9 | 2046.9 | 2048.9 |
| 2392.9  | 5°    | 2360.9  | 2322.9 | 2237.9 | 2131.9 | 1999.9 | 1905.9 | 1806.0 | 1737.0 | 1681.0 | 1669.0 |
| 2472.9  | 7.5°  | 2422.9  | 2362.9 | 2213.9 | 2022.9 | 1800.0 | 1631.0 | 1480.0 | 1383.0 | 1314.0 | 1292.0 |
| 2569.9  | 10°   | 2502.9  | 2415.9 | 2182.9 | 1885.9 | 1565.0 | 1350.0 | 1188.0 | 1112.0 | 1065.0 | 1049.0 |
| 2683.9  | 12.5° | 2595.9  | 2476.9 | 2141.9 | 1719.0 | 1323.0 | 1116.0 | 1013.0 | 975.0  | 960.0  | 955.0  |
| 2823.9  | 15°   | 2712.9  | 2552.9 | 2079.9 | 1521.0 | 1118.0 | 973.0  | 929.0  | 924.0  | 926.0  | 924.0  |
| 2991.9  | 17.5° | 2851.9  | 2635.9 | 1978.9 | 1317.0 | 980.0  | 900.0  | 884.0  | 888.0  | 893.0  | 892.0  |
| 3179.9  | 20°   | 3003.9  | 2717.9 | 1849.9 | 1136.0 | 886.0  | 848.0  | 839.0  | 843.0  | 847.0  | 845.0  |
| 3396.9  | 22.5° | 3176.9  | 2805.9 | 1707.0 | 995.0  | 823.0  | 800.0  | 790.0  | 791.0  | 791.0  | 787.0  |
| 3671.9  | 25°   | 3383.9  | 2902.9 | 1557.0 | 895.0  | 775.0  | 757.0  | 745.0  | 741.0  | 735.0  | 723.0  |
| 4005.9  | 27.5° | 3630.9  | 3005.9 | 1413.0 | 825.0  | 737.0  | 720.0  | 706.0  | 696.0  | 681.0  | 661.0  |
| 4406.9  | 30°   | 3908.9  | 3130.9 | 1291.0 | 781.0  | 707.0  | 690.0  | 674.0  | 659.0  | 637.0  | 612.0  |
| 4867.9  | 32.5° | 4235.9  | 3264.9 | 1202.0 | 752.0  | 680.0  | 662.0  | 643.0  | 625.0  | 601.0  | 576.0  |
| 5385.9  | 35°   | 4625.9  | 3426.9 | 1150.0 | 732.0  | 659.0  | 635.0  | 614.0  | 594.0  | 576.0  | 554.0  |
| 5948.8  | 37.5° | 5048.9  | 3598.9 | 1134.0 | 722.0  | 645.0  | 608.0  | 584.0  | 570.0  | 568.0  | 555.0  |
| 6557.8  | 40°   | 5511.8  | 3802.9 | 1146.0 | 716.0  | 630.0  | 582.0  | 556.0  | 553.0  | 558.0  | 535.0  |
| 7208.8  | 42.5° | 6001.8  | 4044.9 | 1166.0 | 709.0  | 609.0  | 556.0  | 531.0  | 531.0  | 527.0  | 495.0  |
| 7896.8  | 45°   | 6531.8  | 4323.9 | 1186.0 | 692.0  | 584.0  | 530.0  | 511.0  | 504.0  | 487.0  | 456.0  |
| 8588.8  | 47.5° | 7065.8  | 4607.9 | 1201.0 | 661.0  | 554.0  | 508.0  | 491.0  | 475.0  | 450.0  | 422.0  |
| 9267.7  | 50°   | 7572.8  | 4862.9 | 1185.0 | 615.0  | 520.0  | 487.0  | 469.0  | 447.0  | 420.0  | 401.0  |
| 9910.7  | 52.5° | 8025.8  | 5083.9 | 1117.0 | 561.0  | 484.0  | 465.0  | 449.0  | 426.0  | 404.0  | 384.0  |
| 10490.7 | 55°   | 8419.8  | 5262.9 | 997.0  | 510.0  | 452.0  | 446.0  | 430.0  | 401.0  | 371.0  | 354.0  |
| 11065.7 | 57.5° | 8797.8  | 5398.9 | 847.0  | 468.0  | 423.0  | 425.0  | 401.0  | 375.0  | 347.0  | 329.0  |
| 11840.7 | 60°   | 9300.7  | 5580.8 | 695.0  | 429.0  | 392.0  | 398.0  | 372.0  | 353.0  | 318.0  | 295.0  |
| 13169.6 | 62.5° | 10104.7 | 5863.8 | 552.0  | 381.0  | 356.0  | 358.0  | 347.0  | 324.0  | 282.0  | 255.0  |
| 14154.6 | 65°   | 10742.7 | 5759.8 | 435.0  | 329.0  | 315.0  | 318.0  | 318.0  | 293.0  | 248.0  | 217.0  |
| 14207.6 | 67.5° | 10670.7 | 4931.9 | 347.0  | 278.0  | 276.0  | 278.0  | 285.0  | 264.0  | 220.0  | 195.0  |
| 13125.6 | 70°   | 9829.7  | 3922.9 | 278.0  | 231.0  | 240.0  | 235.0  | 255.0  | 241.0  | 198.0  | 173.0  |
| 10175.7 | 72.5° | 8020.8  | 2825.9 | 212.0  | 191.0  | 184.0  | 192.0  | 230.0  | 217.0  | 165.0  | 137.0  |
| 5389.9  | 75°   | 4686.9  | 1508.0 | 158.0  | 151.0  | 133.0  | 160.0  | 204.0  | 185.0  | 126.0  | 101.0  |
| 1652.0  | 77.5° | 1526.0  | 526.0  | 116.0  | 111.0  | 99.0   | 129.0  | 174.0  | 156.0  | 103.0  | 80.0   |
| 484.0   | 80°   | 409.0   | 159.0  | 79.0   | 73.0   | 64.0   | 96.0   | 138.0  | 124.0  | 74.0   | 52.0   |
| 208.0   | 82.5° | 164.0   | 67.0   | 46.0   | 41.0   | 35.0   | 66.0   | 109.0  | 100.0  | 55.0   | 33.0   |
| 65.0    | 85°   | 53.0    | 22.0   | 17.0   | 13.0   | 16.0   | 41.0   | 65.0   | 68.0   | 39.0   | 17.0   |
| 10.0    | 87.5° | 7.0     | 3.0    | 3.0    | 4.0    | 3.0    | 7.0    | 20.0   | 19.0   | 11.0   | 2.0    |
| 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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|        |
|--------|
| 180°   |
| 2300.9 |
| 2028.9 |
| 1642.0 |
| 1270.0 |
| 1037.0 |
| 952.0  |
| 923.0  |
| 890.0  |
| 844.0  |
| 785.0  |
| 721.0  |
| 659.0  |
| 610.0  |
| 577.0  |
| 552.0  |
| 554.0  |
| 536.0  |
| 495.0  |
| 455.0  |
| 421.0  |
| 398.0  |
| 382.0  |
| 352.0  |
| 327.0  |
| 292.0  |
| 253.0  |
| 214.0  |
| 191.0  |
| 170.0  |
| 134.0  |
| 98.0   |
| 77.0   |
| 51.0   |
| 33.0   |
| 13.0   |
| 0.0    |
| 0.0    |

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