

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: P946168

Luminaire Tested: **GALN-SB1D-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

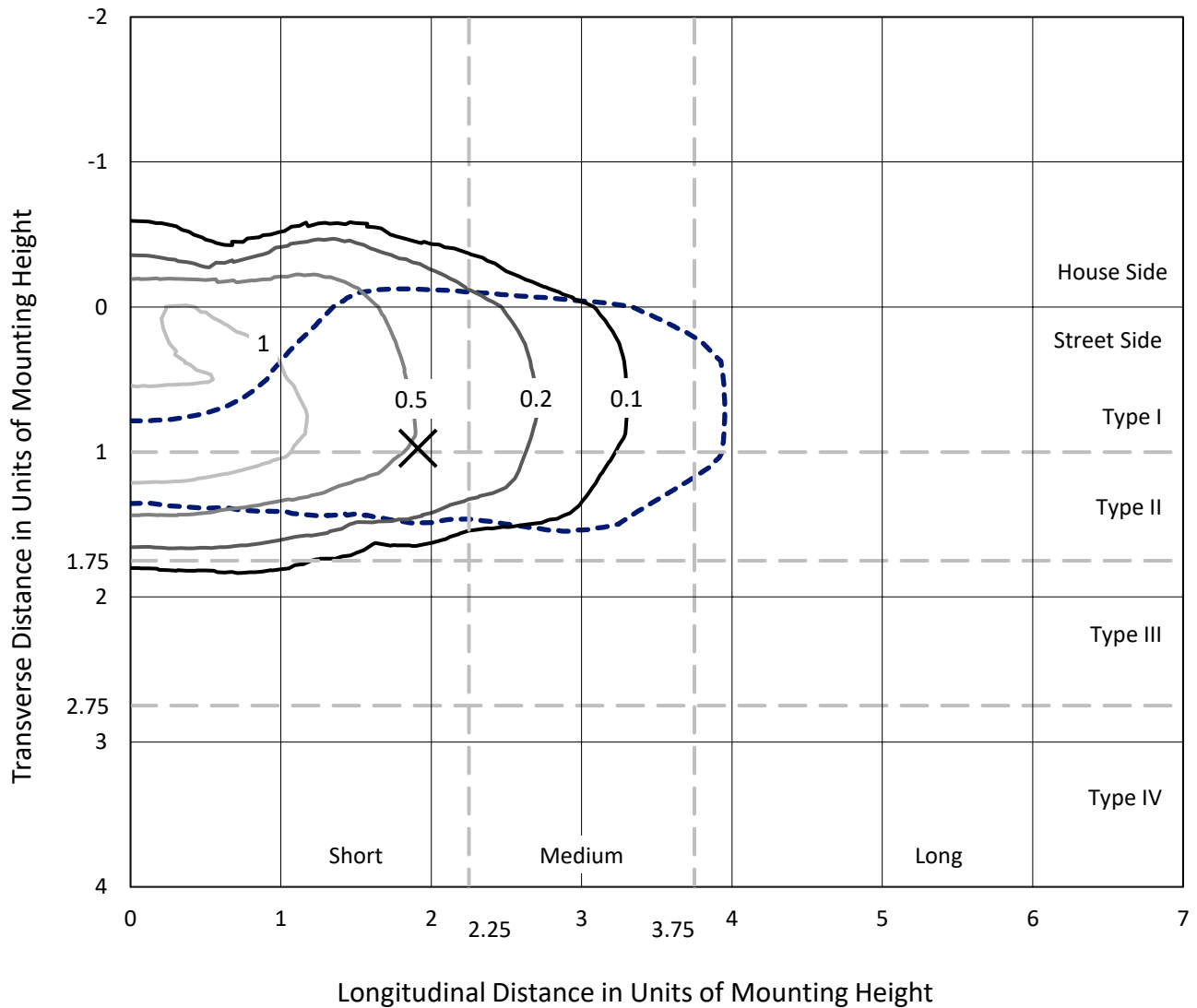
Lumens per Lamp: N/A  
Luminaire Lumens: 4735 lumens  
Efficiency: N/A  
Efficacy: 59.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

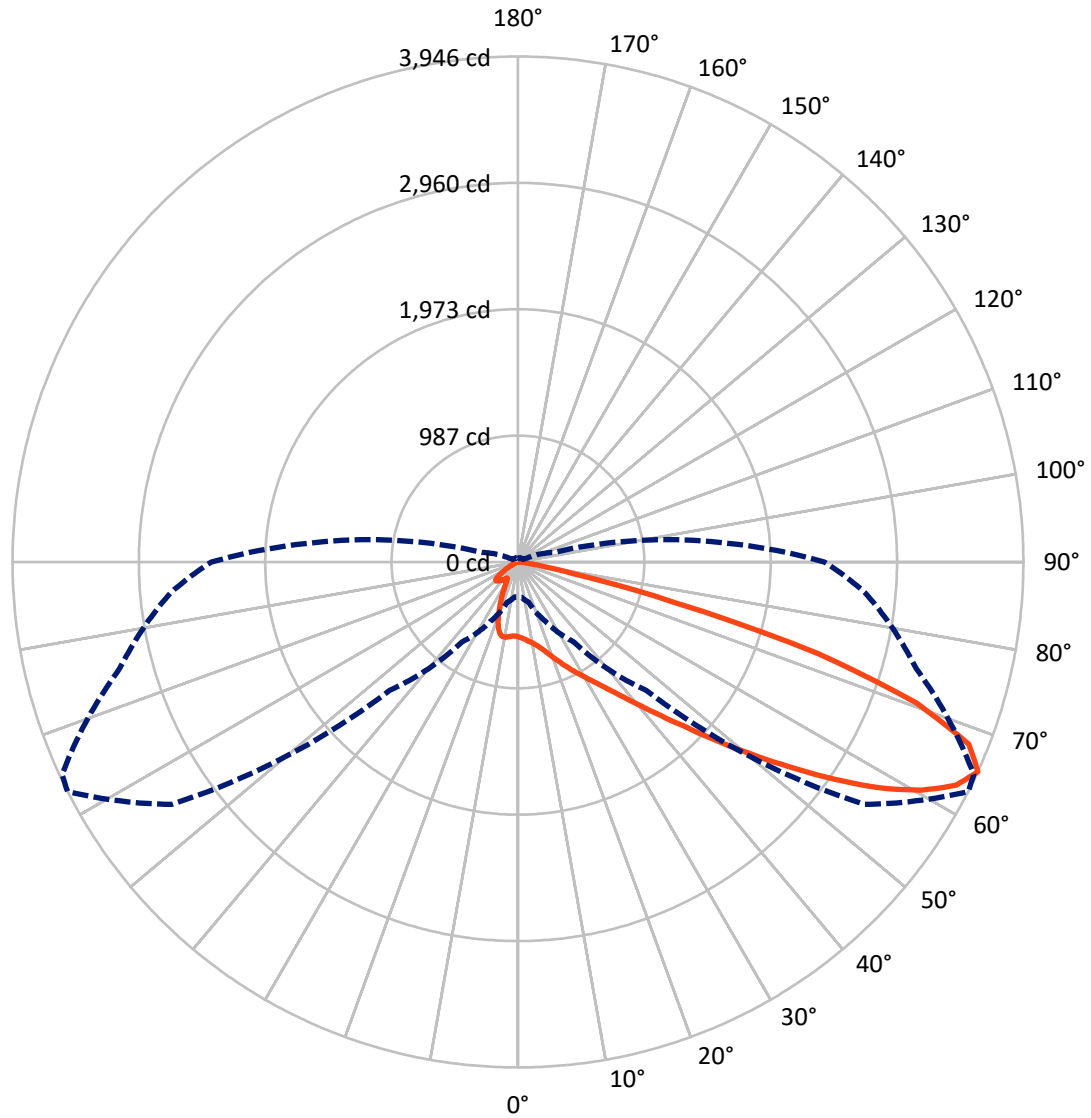
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 696.0    | 0.0    | 696.0  |
|                    | % Fixture | 14.7     | 0.0    | 14.7   |
| <b>Street Side</b> | Lumens    | 4039.0   | 0.0    | 4039.0 |
|                    | % Fixture | 85.3     | 0.0    | 85.3   |
| <b>Total</b>       | Lumens    | 4735.0   | 0.0    | 4735.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.1   | 1.2       |
| 10°-20°   | 152.8  | 3.2       |
| 20°-30°   | 266.0  | 5.6       |
| 30°-40°   | 479.5  | 10.1      |
| 40°-50°   | 950.9  | 20.1      |
| 50°-60°   | 1295.3 | 27.4      |
| 60°-70°   | 1033.9 | 21.8      |
| 70°-80°   | 467.9  | 9.9       |
| 80°-90°   | 33.6   | 0.7       |
| 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°    | 4735.0 | 100.0     |
| 0°-180°   | 4735.0 | 100.0     |

**Coefficient of Utilization**



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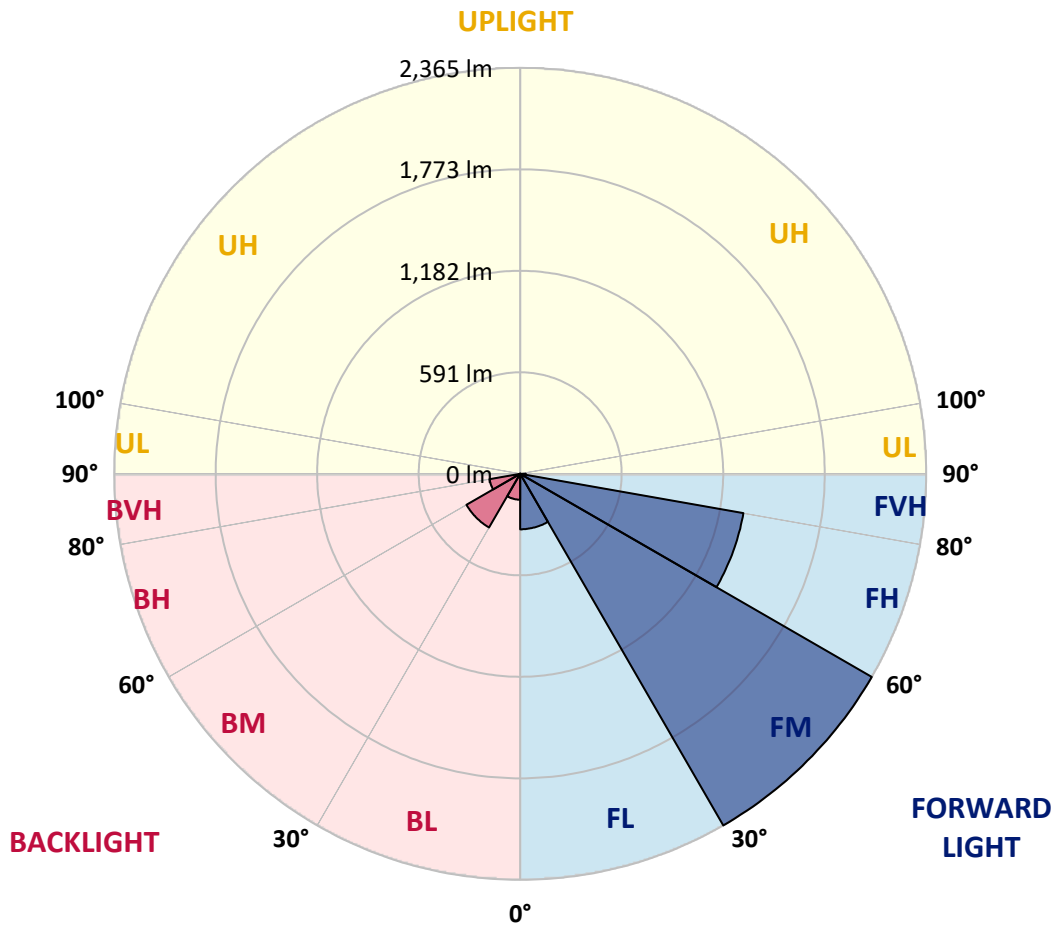
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 323.2  | 6.8       |                         |      |         |
| FM (30°-60°)   | 2364.5 | 49.9      |                         |      |         |
| FH (60°-80°)   | 1320.1 | 27.9      |                         |      | G1/1800 |
| FVH (80°-90°)  | 31.1   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 150.6  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 361.2  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 181.7  | 3.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.5    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  | 584.4  |
| 2.5°  | 598.1  | 596.4  | 598.7  | 597.7  | 597.1  | 595.8  | 595.1  | 594.5  | 593.2  | 592.2  |
| 5°    | 599.7  | 598.7  | 601.0  | 603.0  | 604.9  | 606.9  | 607.8  | 609.1  | 607.8  | 605.2  |
| 7.5°  | 586.0  | 585.4  | 590.3  | 596.1  | 604.9  | 612.4  | 620.5  | 625.1  | 625.4  | 624.5  |
| 10°   | 585.0  | 583.4  | 588.3  | 595.5  | 606.9  | 620.2  | 634.6  | 644.3  | 645.6  | 649.9  |
| 12.5° | 600.4  | 598.7  | 605.6  | 613.4  | 625.1  | 639.1  | 656.7  | 670.4  | 672.3  | 678.2  |
| 15°   | 626.1  | 623.8  | 631.6  | 641.7  | 656.7  | 672.7  | 691.2  | 703.6  | 705.2  | 712.4  |
| 17.5° | 656.1  | 653.8  | 662.9  | 673.6  | 689.9  | 711.8  | 733.3  | 746.9  | 748.9  | 753.5  |
| 20°   | 694.5  | 691.6  | 698.7  | 708.5  | 725.8  | 751.8  | 777.6  | 797.1  | 796.8  | 796.8  |
| 22.5° | 739.1  | 734.6  | 740.7  | 748.6  | 764.9  | 796.4  | 830.7  | 853.8  | 853.8  | 844.7  |
| 25°   | 787.0  | 782.4  | 789.3  | 796.4  | 810.8  | 846.6  | 886.7  | 915.3  | 916.6  | 901.0  |
| 27.5° | 846.9  | 841.1  | 846.3  | 854.8  | 863.2  | 899.7  | 947.3  | 980.5  | 981.1  | 957.0  |
| 30°   | 962.3  | 945.6  | 929.4  | 920.2  | 924.1  | 960.3  | 1011.1 | 1047.9 | 1051.2 | 1018.0 |
| 32.5° | 1173.3 | 1170.1 | 1112.7 | 1037.8 | 998.7  | 1025.4 | 1082.5 | 1126.8 | 1128.7 | 1086.0 |
| 35°   | 1501.4 | 1497.5 | 1405.3 | 1262.6 | 1135.2 | 1112.7 | 1169.1 | 1221.5 | 1220.2 | 1172.0 |
| 37.5° | 1892.9 | 1889.3 | 1767.8 | 1576.9 | 1370.7 | 1244.7 | 1280.8 | 1335.9 | 1344.0 | 1280.8 |
| 40°   | 2227.5 | 2214.1 | 2137.2 | 1953.2 | 1683.5 | 1463.6 | 1439.8 | 1476.3 | 1484.8 | 1409.8 |
| 42.5° | 2480.9 | 2469.5 | 2430.4 | 2315.4 | 2062.0 | 1787.4 | 1627.1 | 1641.1 | 1650.6 | 1560.6 |
| 45°   | 2612.2 | 2609.6 | 2625.2 | 2614.4 | 2447.7 | 2184.8 | 1894.9 | 1836.6 | 1840.1 | 1727.8 |
| 47.5° | 2630.7 | 2629.4 | 2700.8 | 2801.7 | 2779.3 | 2633.0 | 2238.5 | 2080.2 | 2067.5 | 1916.4 |
| 50°   | 2521.3 | 2518.7 | 2655.5 | 2844.7 | 3000.8 | 3009.6 | 2628.8 | 2354.8 | 2326.8 | 2111.5 |
| 52.5° | 2171.7 | 2171.1 | 2395.9 | 2710.9 | 3078.6 | 3339.2 | 3014.5 | 2656.5 | 2609.6 | 2318.0 |
| 55°   | 1671.1 | 1683.1 | 1940.8 | 2313.1 | 2936.6 | 3497.9 | 3360.7 | 2991.3 | 2919.3 | 2525.8 |
| 57.5° | 1183.8 | 1201.4 | 1456.1 | 1787.7 | 2496.2 | 3404.0 | 3594.9 | 3326.8 | 3249.3 | 2733.0 |
| 60°   | 635.9  | 651.5  | 906.6  | 1302.3 | 1857.1 | 3054.2 | 3718.4 | 3618.1 | 3544.8 | 2929.8 |
| 62.5° | 378.8  | 384.1  | 489.6  | 840.8  | 1256.1 | 2333.3 | 3665.9 | 3839.9 | 3779.6 | 3094.9 |
| 65°   | 272.0  | 273.0  | 326.1  | 513.4  | 762.6  | 1417.6 | 3298.2 | 3946.1 | 3927.5 | 3219.3 |
| 67.5° | 229.0  | 228.3  | 250.5  | 341.1  | 519.6  | 710.1  | 2527.8 | 3795.9 | 3874.7 | 3298.2 |
| 70°   | 196.4  | 197.4  | 223.5  | 249.8  | 390.6  | 402.0  | 1256.7 | 3305.0 | 3473.1 | 3319.0 |
| 72.5° | 146.3  | 149.5  | 173.6  | 227.7  | 294.8  | 276.6  | 433.9  | 2450.6 | 2754.5 | 3127.2 |
| 75°   | 103.3  | 104.9  | 122.2  | 191.5  | 219.9  | 201.3  | 221.5  | 1266.8 | 1656.4 | 2397.5 |
| 77.5° | 79.5   | 82.4   | 92.5   | 133.9  | 216.6  | 141.4  | 135.5  | 438.5  | 673.6  | 1448.3 |
| 80°   | 43.0   | 48.2   | 66.8   | 96.7   | 152.1  | 100.0  | 67.1   | 174.6  | 228.3  | 677.2  |
| 82.5° | 22.2   | 24.8   | 46.6   | 69.7   | 86.6   | 87.3   | 33.2   | 72.6   | 94.1   | 209.1  |
| 85°   | 8.8    | 10.7   | 31.3   | 38.4   | 44.6   | 43.0   | 15.0   | 29.3   | 33.9   | 58.0   |
| 87.5° | 2.0    | 3.3    | 11.4   | 8.8    | 8.5    | 9.1    | 3.6    | 6.8    | 6.5    | 6.8    |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 584.4  | 0°    | 584.4  | 584.4  | 584.4 | 584.4 | 584.4 | 584.4 | 584.4 | 584.4 | 584.4 | 584.4 |
| 588.3  | 2.5°  | 588.0  | 586.7  | 583.1 | 579.2 | 574.6 | 572.0 | 570.4 | 570.1 | 567.8 | 566.1 |
| 601.3  | 5°    | 597.7  | 596.4  | 589.6 | 581.5 | 572.7 | 565.8 | 559.3 | 553.4 | 545.0 | 543.3 |
| 620.2  | 7.5°  | 617.3  | 613.7  | 602.6 | 591.6 | 574.9 | 555.1 | 531.0 | 503.3 | 478.5 | 471.0 |
| 645.3  | 10°   | 641.4  | 636.5  | 622.5 | 603.0 | 566.1 | 512.1 | 453.8 | 399.7 | 356.7 | 344.6 |
| 674.9  | 12.5° | 668.8  | 664.5  | 646.0 | 609.8 | 529.3 | 431.3 | 342.0 | 274.9 | 233.2 | 222.8 |
| 706.5  | 15°   | 701.3  | 695.1  | 669.4 | 599.4 | 463.5 | 327.7 | 234.9 | 195.1 | 180.1 | 178.2 |
| 742.7  | 17.5° | 735.9  | 725.8  | 690.3 | 561.9 | 374.9 | 232.9 | 181.4 | 170.0 | 163.5 | 161.6 |
| 779.2  | 20°   | 767.5  | 754.4  | 702.6 | 505.2 | 280.1 | 181.4 | 162.5 | 155.1 | 149.2 | 146.9 |
| 815.7  | 22.5° | 799.1  | 780.5  | 702.6 | 428.0 | 210.1 | 160.9 | 149.2 | 142.4 | 135.5 | 132.6 |
| 854.8  | 25°   | 832.0  | 807.2  | 690.3 | 342.0 | 169.1 | 147.6 | 136.5 | 129.0 | 123.1 | 119.5 |
| 891.9  | 27.5° | 863.9  | 829.7  | 661.9 | 260.6 | 150.5 | 135.8 | 124.8 | 117.6 | 112.1 | 109.5 |
| 932.3  | 30°   | 894.2  | 851.8  | 622.2 | 197.7 | 138.4 | 124.4 | 114.0 | 107.8 | 102.3 | 99.7  |
| 984.7  | 32.5° | 935.2  | 879.8  | 579.8 | 162.2 | 128.0 | 113.7 | 104.2 | 98.4  | 93.5  | 91.5  |
| 1052.8 | 35°   | 992.2  | 921.2  | 543.3 | 159.3 | 119.2 | 104.9 | 95.4  | 89.9  | 85.0  | 83.4  |
| 1140.8 | 37.5° | 1073.0 | 988.0  | 524.1 | 178.8 | 112.1 | 97.1  | 88.3  | 82.4  | 77.9  | 76.6  |
| 1252.5 | 40°   | 1172.7 | 1078.5 | 534.5 | 198.4 | 107.2 | 90.2  | 81.8  | 75.9  | 72.0  | 70.4  |
| 1380.8 | 42.5° | 1290.9 | 1190.3 | 592.2 | 213.4 | 103.9 | 84.4  | 75.6  | 69.1  | 66.5  | 65.8  |
| 1526.4 | 45°   | 1426.8 | 1313.1 | 680.5 | 229.3 | 98.7  | 78.8  | 69.4  | 64.5  | 62.5  | 62.2  |
| 1684.8 | 47.5° | 1581.2 | 1447.9 | 782.8 | 249.2 | 93.5  | 73.6  | 64.5  | 61.2  | 59.6  | 59.0  |
| 1849.9 | 50°   | 1734.3 | 1583.8 | 888.0 | 260.3 | 89.3  | 68.7  | 60.6  | 58.0  | 56.7  | 56.4  |
| 2024.5 | 52.5° | 1894.5 | 1723.5 | 973.0 | 249.8 | 85.7  | 64.8  | 57.3  | 55.4  | 54.1  | 53.7  |
| 2185.4 | 55°   | 2047.3 | 1836.6 | 987.7 | 212.1 | 78.5  | 60.9  | 53.7  | 52.8  | 51.1  | 51.1  |
| 2348.6 | 57.5° | 2178.9 | 1893.2 | 884.1 | 155.7 | 71.3  | 55.1  | 50.2  | 49.2  | 47.9  | 47.6  |
| 2495.9 | 60°   | 2299.8 | 1876.9 | 682.4 | 104.9 | 63.5  | 49.2  | 45.6  | 45.0  | 43.6  | 42.0  |
| 2623.9 | 62.5° | 2367.8 | 1805.3 | 466.8 | 68.4  | 55.7  | 43.0  | 40.4  | 40.1  | 37.1  | 33.9  |
| 2718.7 | 65°   | 2393.6 | 1658.0 | 291.2 | 49.8  | 46.6  | 36.8  | 34.9  | 34.2  | 30.0  | 26.4  |
| 2772.4 | 67.5° | 2371.1 | 1415.7 | 146.9 | 39.4  | 36.8  | 30.6  | 28.7  | 28.7  | 25.7  | 22.5  |
| 2769.2 | 70°   | 2281.2 | 1061.3 | 61.9  | 31.6  | 28.3  | 23.5  | 23.5  | 24.8  | 21.8  | 18.2  |
| 2625.5 | 72.5° | 2086.1 | 714.0  | 32.9  | 24.1  | 21.2  | 16.6  | 19.2  | 20.2  | 17.3  | 13.7  |
| 2148.9 | 75°   | 1658.4 | 435.5  | 22.8  | 17.9  | 13.4  | 11.7  | 14.7  | 15.3  | 11.7  | 9.1   |
| 1473.3 | 77.5° | 1134.2 | 250.2  | 15.3  | 11.4  | 8.5   | 6.8   | 10.1  | 9.4   | 6.2   | 4.2   |
| 568.1  | 80°   | 498.1  | 104.2  | 8.8   | 5.2   | 3.3   | 2.6   | 3.6   | 2.6   | 2.0   | 1.3   |
| 77.9   | 82.5° | 58.3   | 24.4   | 3.3   | 2.0   | 1.3   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   |
| 23.8   | 85°   | 12.1   | 2.9    | 1.6   | 0.7   | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 4.2    | 87.5° | 2.3    | 0.7    | 0.3   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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> |
| 584.4       |
| 567.8       |
| 542.7       |
| 467.4       |
| 340.1       |
| 219.9       |
| 176.2       |
| 160.6       |
| 145.6       |
| 130.9       |
| 118.2       |
| 109.5       |
| 100.0       |
| 91.5        |
| 83.4        |
| 76.2        |
| 70.0        |
| 65.8        |
| 61.9        |
| 59.0        |
| 56.4        |
| 53.7        |
| 50.8        |
| 47.2        |
| 41.7        |
| 33.2        |
| 26.1        |
| 22.2        |
| 17.9        |
| 13.7        |
| 8.8         |
| 4.6         |
| 1.3         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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