

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: P945109

Luminaire Tested: **GALN-SB1A-930-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945109  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-930-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

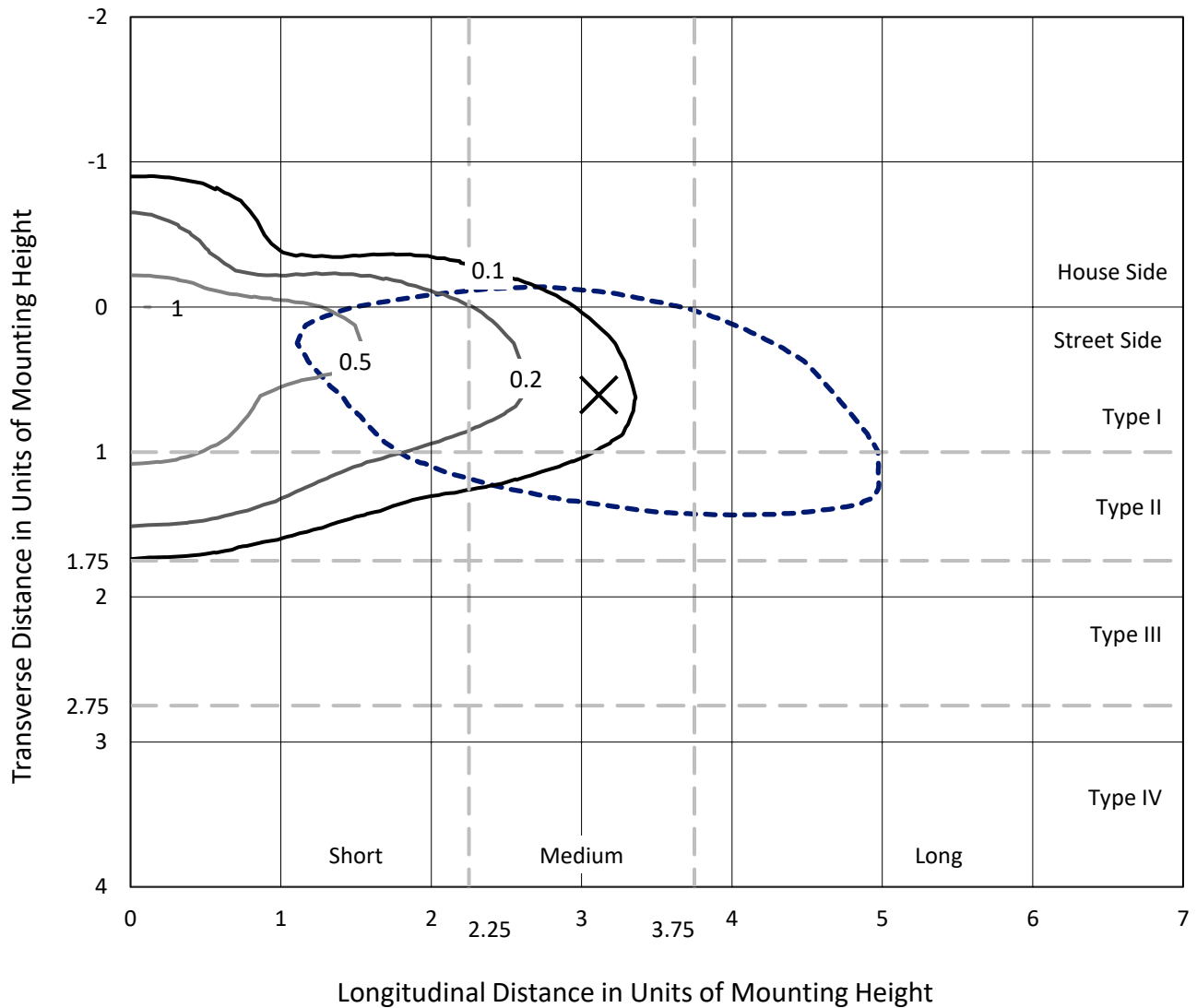
Lumens per Lamp: N/A  
Luminaire Lumens: 3103 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

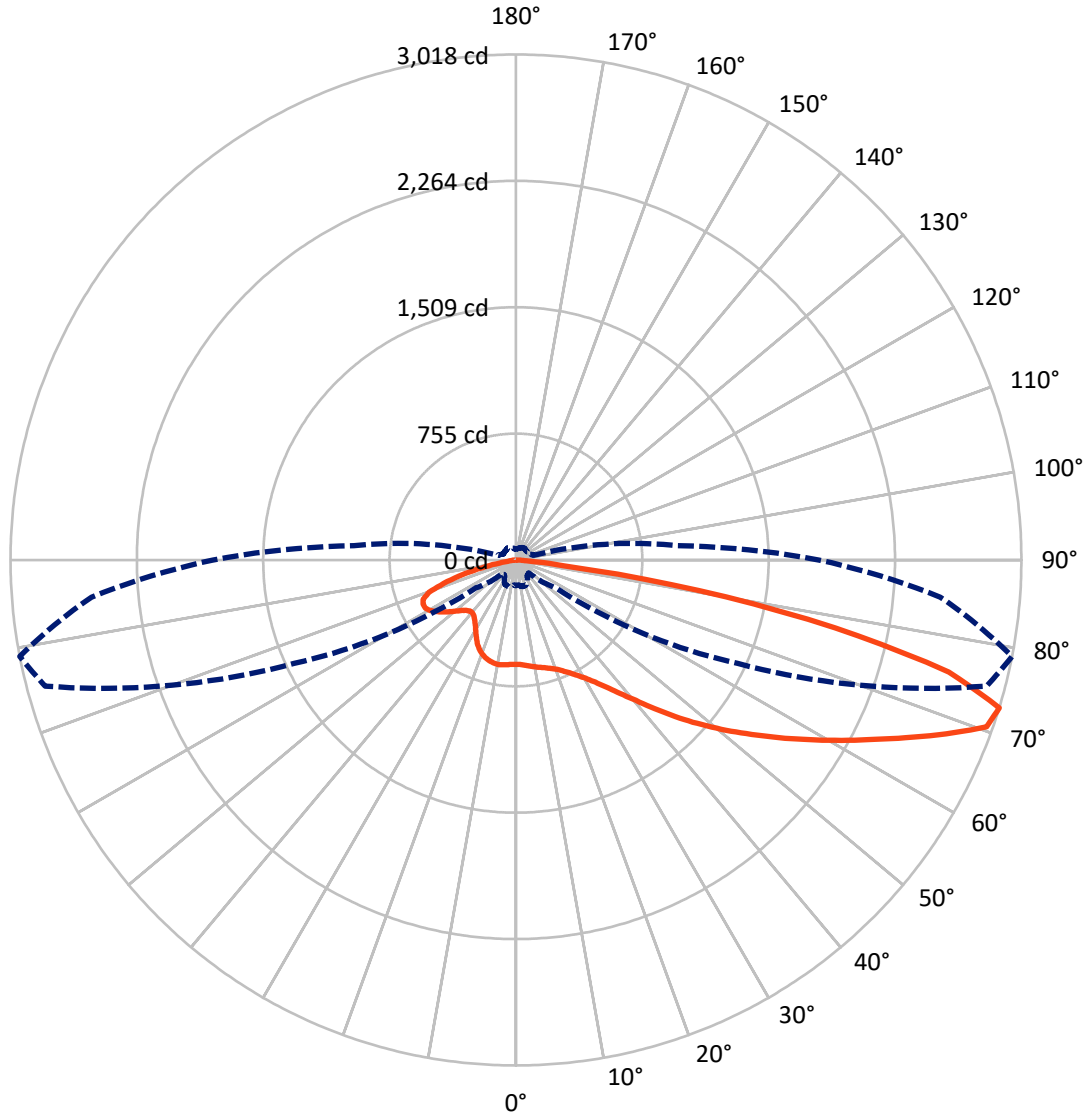
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 682.8    | 0.0    | 682.8  |
|                    | % Fixture | 22.0     | 0.0    | 22.0   |
| <b>Street Side</b> | Lumens    | 2420.2   | 0.0    | 2420.2 |
|                    | % Fixture | 78.0     | 0.0    | 78.0   |
| <b>Total</b>       | Lumens    | 3103.0   | 0.0    | 3103.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.5   | 1.8       |
| 10°-20°   | 147.8  | 4.8       |
| 20°-30°   | 238.5  | 7.7       |
| 30°-40°   | 358.0  | 11.5      |
| 40°-50°   | 507.8  | 16.4      |
| 50°-60°   | 641.3  | 20.7      |
| 60°-70°   | 651.4  | 21.0      |
| 70°-80°   | 443.9  | 14.3      |
| 80°-90°   | 57.6   | 1.9       |
| 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°    | 3103.0 | 100.0     |
| 0°-180°   | 3103.0 | 100.0     |

**Coefficient of Utilization**

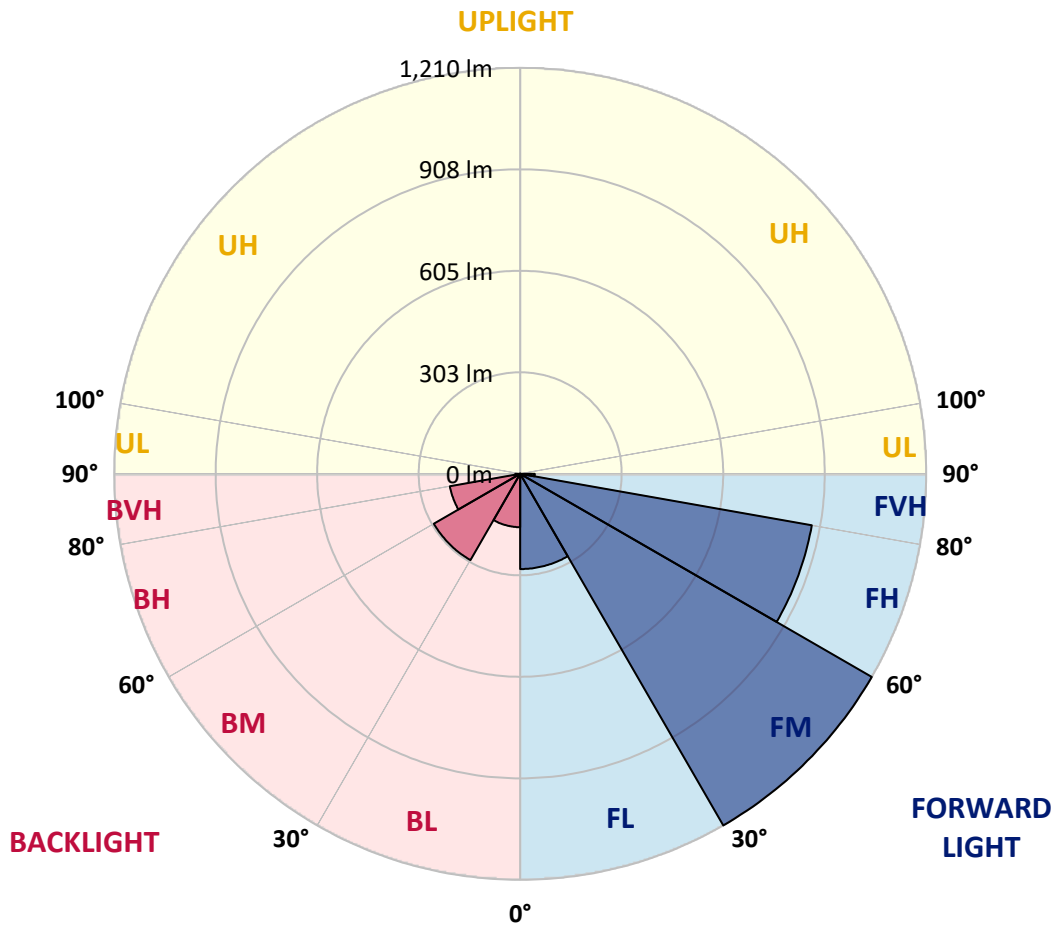


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 283.8  | 9.1       |                         |      |         |
| FM (30°-60°)   | 1210.2 | 39.0      |                         |      |         |
| FH (60°-80°)   | 882.7  | 28.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 43.4   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 159.1  | 5.1       | B1/500                  |      |         |
| BM (30°-60°)   | 297.0  | 9.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 212.6  | 6.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 14.2   | 0.5       |                         |      | G1/100  |
| 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 Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  | 622.9  |
| 2.5°  | 623.2  | 620.3  | 622.1  | 621.4  | 622.2  | 623.2  | 623.6  | 624.0  | 625.7  | 625.5  |
| 5°    | 621.9  | 619.0  | 621.4  | 620.6  | 622.7  | 625.0  | 627.0  | 628.8  | 631.4  | 632.6  |
| 7.5°  | 619.1  | 617.2  | 619.6  | 622.1  | 626.0  | 629.5  | 632.3  | 636.4  | 640.1  | 640.8  |
| 10°   | 602.9  | 601.4  | 607.1  | 613.5  | 624.4  | 633.7  | 639.8  | 644.6  | 648.7  | 649.3  |
| 12.5° | 586.0  | 584.2  | 590.6  | 599.3  | 616.8  | 633.7  | 646.5  | 652.8  | 656.4  | 658.5  |
| 15°   | 583.2  | 581.7  | 585.3  | 592.9  | 607.5  | 629.3  | 651.1  | 662.6  | 665.7  | 668.2  |
| 17.5° | 596.6  | 593.8  | 595.3  | 597.9  | 606.5  | 625.2  | 654.7  | 673.8  | 678.5  | 681.2  |
| 20°   | 627.8  | 623.9  | 621.6  | 616.3  | 614.9  | 625.9  | 654.4  | 687.2  | 693.5  | 696.8  |
| 22.5° | 669.3  | 666.7  | 661.8  | 648.5  | 634.1  | 633.9  | 660.6  | 704.5  | 716.1  | 719.2  |
| 25°   | 719.6  | 715.6  | 709.4  | 691.3  | 663.6  | 649.8  | 671.2  | 726.5  | 746.0  | 746.8  |
| 27.5° | 777.4  | 771.4  | 762.9  | 739.1  | 701.7  | 674.8  | 687.2  | 751.7  | 780.3  | 780.0  |
| 30°   | 838.2  | 832.3  | 823.3  | 794.4  | 747.3  | 708.4  | 709.6  | 779.0  | 821.0  | 819.2  |
| 32.5° | 882.7  | 878.3  | 876.5  | 854.2  | 799.8  | 748.1  | 735.2  | 809.2  | 871.2  | 869.6  |
| 35°   | 916.9  | 911.1  | 913.3  | 901.9  | 857.1  | 792.6  | 766.5  | 845.1  | 932.3  | 932.1  |
| 37.5° | 950.7  | 945.6  | 947.4  | 939.8  | 910.1  | 849.1  | 804.8  | 889.1  | 1008.0 | 1011.6 |
| 40°   | 981.5  | 976.1  | 983.3  | 976.3  | 951.3  | 909.2  | 848.3  | 938.9  | 1095.6 | 1102.5 |
| 42.5° | 1000.1 | 995.8  | 1007.8 | 1008.0 | 987.1  | 959.9  | 896.0  | 993.7  | 1197.0 | 1212.5 |
| 45°   | 1006.5 | 1005.0 | 1023.1 | 1026.8 | 1018.8 | 989.3  | 939.0  | 1053.4 | 1306.4 | 1333.9 |
| 47.5° | 999.6  | 996.8  | 1021.7 | 1035.7 | 1042.1 | 1003.0 | 974.6  | 1118.1 | 1418.0 | 1458.4 |
| 50°   | 964.8  | 959.4  | 996.5  | 1025.9 | 1048.7 | 1012.1 | 1010.6 | 1192.8 | 1544.9 | 1589.0 |
| 52.5° | 902.3  | 898.2  | 940.3  | 991.4  | 1034.2 | 1016.5 | 1051.0 | 1274.4 | 1665.3 | 1722.4 |
| 55°   | 822.3  | 816.9  | 863.4  | 930.0  | 998.3  | 1015.0 | 1091.3 | 1365.6 | 1807.5 | 1865.4 |
| 57.5° | 695.6  | 684.8  | 743.5  | 822.3  | 939.7  | 1013.2 | 1133.4 | 1456.4 | 1951.9 | 2021.3 |
| 60°   | 510.8  | 494.7  | 566.8  | 660.2  | 825.1  | 995.7  | 1185.4 | 1558.1 | 2125.2 | 2187.8 |
| 62.5° | 297.4  | 288.1  | 335.2  | 422.3  | 621.9  | 892.2  | 1214.6 | 1676.5 | 2295.6 | 2361.3 |
| 65°   | 230.9  | 228.3  | 232.4  | 239.1  | 346.2  | 668.0  | 1124.5 | 1791.9 | 2512.3 | 2558.2 |
| 67.5° | 211.2  | 209.3  | 211.1  | 198.4  | 175.6  | 372.1  | 889.6  | 1821.1 | 2744.4 | 2772.3 |
| 70°   | 187.8  | 185.5  | 191.4  | 180.6  | 138.2  | 169.2  | 574.8  | 1715.1 | 2929.0 | 2981.4 |
| 72.5° | 153.0  | 150.3  | 164.1  | 159.2  | 116.4  | 108.7  | 288.7  | 1463.1 | 2909.6 | 3018.3 |
| 75°   | 117.5  | 116.0  | 132.5  | 136.6  | 94.9   | 85.5   | 138.5  | 1087.6 | 2560.5 | 2670.0 |
| 77.5° | 91.3   | 90.1   | 98.5   | 113.4  | 76.5   | 66.3   | 85.2   | 689.9  | 1929.6 | 1948.8 |
| 80°   | 68.4   | 65.2   | 72.9   | 87.8   | 59.6   | 48.4   | 57.8   | 402.3  | 1219.7 | 1105.6 |
| 82.5° | 42.8   | 41.2   | 47.6   | 58.6   | 42.0   | 33.3   | 37.6   | 222.2  | 488.8  | 287.9  |
| 85°   | 24.5   | 23.8   | 25.9   | 33.5   | 22.8   | 19.2   | 21.5   | 98.2   | 89.3   | 61.4   |
| 87.5° | 9.8    | 9.5    | 11.8   | 14.9   | 8.4    | 7.1    | 7.6    | 23.6   | 19.7   | 18.2   |
| 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°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 622.9  | 0°    | 622.9  | 622.9  | 622.9 | 622.9 | 622.9 | 622.9 | 622.9 | 622.9 | 622.9 | 622.9 |
| 625.4  | 2.5°  | 624.7  | 624.7  | 622.4 | 618.8 | 614.7 | 612.1 | 607.8 | 606.6 | 602.2 | 600.9 |
| 630.9  | 5°    | 632.3  | 630.9  | 623.9 | 613.7 | 599.8 | 587.0 | 572.8 | 564.0 | 551.5 | 547.1 |
| 641.9  | 7.5°  | 641.8  | 638.2  | 626.0 | 603.7 | 574.5 | 545.8 | 515.9 | 493.2 | 471.6 | 463.8 |
| 651.0  | 10°   | 650.5  | 645.4  | 624.7 | 585.6 | 535.1 | 485.4 | 437.8 | 404.4 | 379.2 | 368.8 |
| 661.0  | 12.5° | 659.2  | 649.8  | 616.0 | 555.6 | 479.1 | 411.7 | 360.9 | 335.0 | 319.4 | 306.9 |
| 669.2  | 15°   | 667.4  | 654.2  | 602.5 | 515.4 | 417.7 | 349.3 | 311.9 | 291.2 | 278.7 | 270.5 |
| 681.2  | 17.5° | 676.9  | 658.0  | 582.4 | 464.3 | 359.3 | 306.1 | 275.6 | 263.1 | 260.6 | 259.7 |
| 697.6  | 20°   | 690.2  | 661.5  | 555.8 | 407.2 | 316.3 | 271.6 | 255.9 | 254.7 | 254.6 | 254.1 |
| 717.3  | 22.5° | 704.5  | 665.6  | 520.6 | 355.4 | 279.7 | 250.1 | 247.4 | 245.1 | 243.6 | 243.4 |
| 741.1  | 25°   | 721.4  | 666.9  | 476.7 | 312.8 | 248.5 | 240.0 | 236.7 | 233.2 | 232.3 | 232.3 |
| 768.2  | 27.5° | 737.8  | 662.5  | 425.4 | 275.9 | 230.9 | 230.6 | 226.3 | 225.2 | 225.0 | 225.5 |
| 799.0  | 30°   | 754.2  | 654.1  | 374.6 | 241.8 | 220.8 | 220.8 | 219.3 | 220.1 | 220.8 | 222.4 |
| 841.4  | 32.5° | 776.4  | 645.2  | 332.0 | 216.5 | 211.9 | 210.3 | 211.7 | 213.4 | 214.0 | 216.2 |
| 897.0  | 35°   | 808.9  | 639.0  | 298.2 | 202.7 | 202.7 | 200.6 | 201.4 | 201.1 | 199.6 | 198.6 |
| 964.3  | 37.5° | 851.9  | 638.7  | 270.3 | 196.3 | 195.0 | 194.7 | 194.8 | 192.7 | 187.0 | 180.1 |
| 1045.7 | 40°   | 903.6  | 647.5  | 248.8 | 191.9 | 190.9 | 192.9 | 191.9 | 186.1 | 170.4 | 158.4 |
| 1145.8 | 42.5° | 973.0  | 672.8  | 235.0 | 186.5 | 189.4 | 191.9 | 187.9 | 168.1 | 157.4 | 149.4 |
| 1259.9 | 45°   | 1054.7 | 713.8  | 228.0 | 180.7 | 186.6 | 189.6 | 170.5 | 161.8 | 153.3 | 143.6 |
| 1384.3 | 47.5° | 1147.3 | 765.5  | 226.3 | 175.3 | 180.4 | 182.2 | 163.2 | 159.2 | 149.5 | 139.0 |
| 1509.4 | 50°   | 1248.1 | 826.8  | 230.8 | 168.9 | 171.4 | 165.1 | 160.7 | 157.1 | 147.1 | 136.7 |
| 1637.6 | 52.5° | 1352.3 | 894.2  | 239.6 | 160.2 | 162.3 | 155.4 | 159.7 | 156.6 | 145.6 | 131.6 |
| 1770.0 | 55°   | 1454.7 | 962.2  | 248.2 | 150.0 | 153.1 | 146.7 | 156.9 | 154.6 | 138.9 | 123.1 |
| 1911.4 | 57.5° | 1558.8 | 1029.8 | 256.5 | 141.0 | 144.3 | 138.4 | 152.5 | 149.4 | 131.3 | 115.2 |
| 2065.7 | 60°   | 1667.0 | 1095.4 | 260.5 | 132.3 | 134.6 | 130.7 | 145.8 | 140.3 | 122.8 | 107.2 |
| 2217.3 | 62.5° | 1768.2 | 1150.1 | 254.1 | 123.6 | 125.1 | 123.4 | 136.9 | 129.7 | 114.2 | 98.2  |
| 2375.4 | 65°   | 1869.8 | 1182.6 | 234.4 | 115.1 | 115.4 | 114.6 | 124.4 | 118.2 | 104.2 | 90.3  |
| 2513.7 | 67.5° | 1961.9 | 1200.8 | 203.0 | 105.9 | 105.0 | 104.7 | 112.8 | 105.7 | 94.5  | 82.4  |
| 2619.0 | 70°   | 1981.5 | 1154.5 | 155.1 | 95.0  | 95.0  | 94.2  | 100.0 | 92.7  | 83.9  | 74.0  |
| 2543.6 | 72.5° | 1809.8 | 971.2  | 110.1 | 82.7  | 84.0  | 82.4  | 87.2  | 81.1  | 73.0  | 66.5  |
| 2192.2 | 75°   | 1459.3 | 712.2  | 80.1  | 70.1  | 72.4  | 69.6  | 74.0  | 69.8  | 62.9  | 62.7  |
| 1510.7 | 77.5° | 1002.7 | 440.4  | 58.1  | 57.8  | 59.4  | 55.8  | 60.9  | 58.6  | 52.4  | 49.6  |
| 657.5  | 80°   | 427.9  | 175.6  | 42.3  | 44.6  | 44.6  | 41.4  | 47.3  | 47.9  | 42.5  | 41.2  |
| 126.9  | 82.5° | 85.2   | 49.9   | 29.7  | 30.7  | 28.9  | 27.9  | 33.5  | 37.1  | 51.2  | 57.0  |
| 38.2   | 85°   | 25.6   | 18.4   | 17.9  | 16.7  | 14.8  | 14.9  | 19.7  | 37.3  | 46.0  | 26.3  |
| 12.6   | 87.5° | 7.1    | 4.6    | 4.8   | 3.8   | 3.1   | 4.1   | 6.7   | 28.2  | 15.4  | 6.6   |
| 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> |
| 622.9       |
| 603.0       |
| 550.3       |
| 464.8       |
| 371.1       |
| 311.0       |
| 272.0       |
| 260.3       |
| 255.7       |
| 245.2       |
| 233.2       |
| 226.8       |
| 223.6       |
| 218.0       |
| 200.9       |
| 180.2       |
| 158.1       |
| 149.0       |
| 143.0       |
| 138.2       |
| 135.6       |
| 130.7       |
| 122.3       |
| 114.9       |
| 106.7       |
| 98.0        |
| 89.3        |
| 81.4        |
| 73.7        |
| 64.5        |
| 56.5        |
| 46.5        |
| 41.2        |
| 57.1        |
| 22.7        |
| 5.6         |
| 0.0         |

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