

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: P945257

Luminaire Tested: **GALN-SB1B-735-U-SL3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945257  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

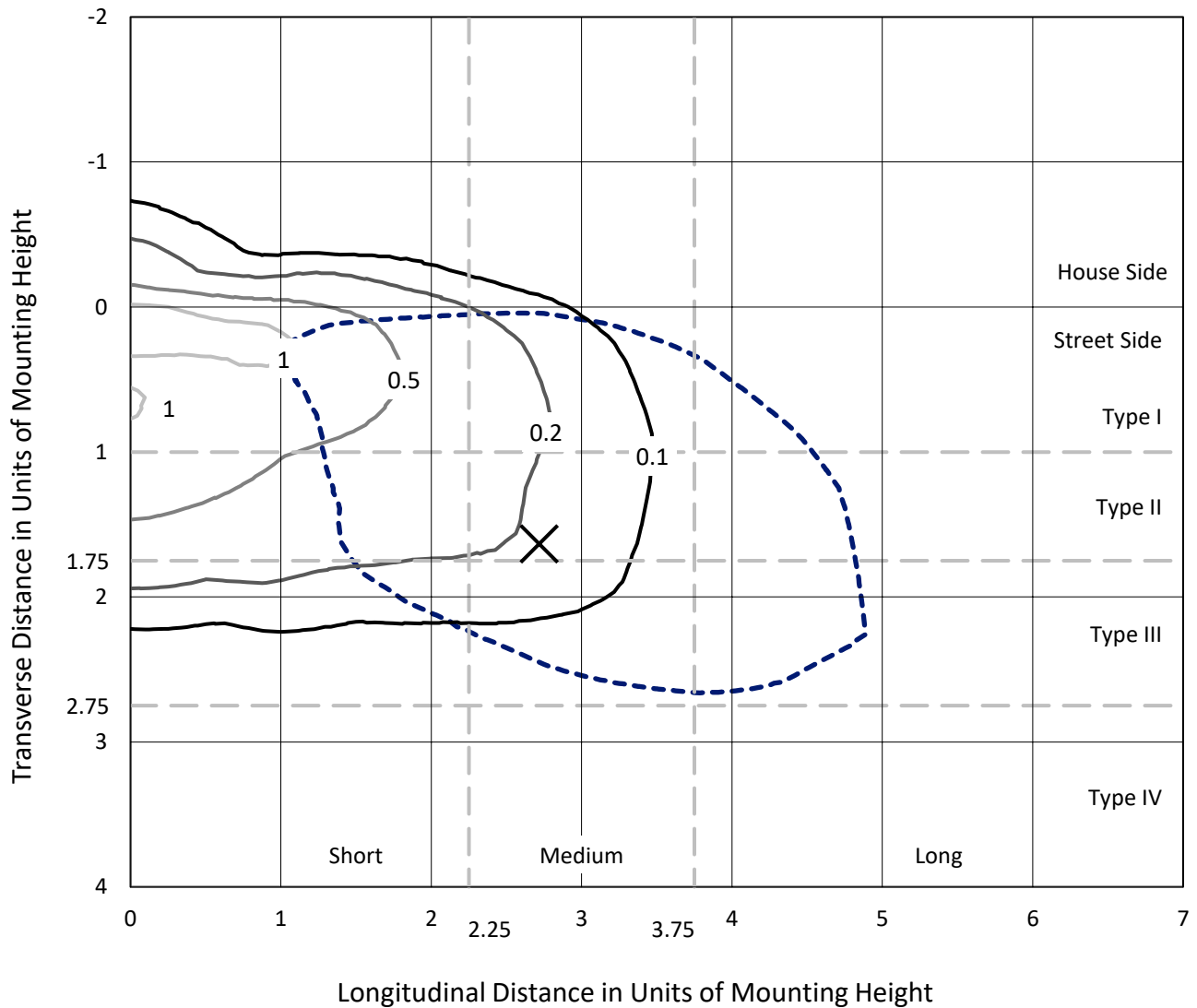
Lumens per Lamp: N/A  
Luminaire Lumens: 4536 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): 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

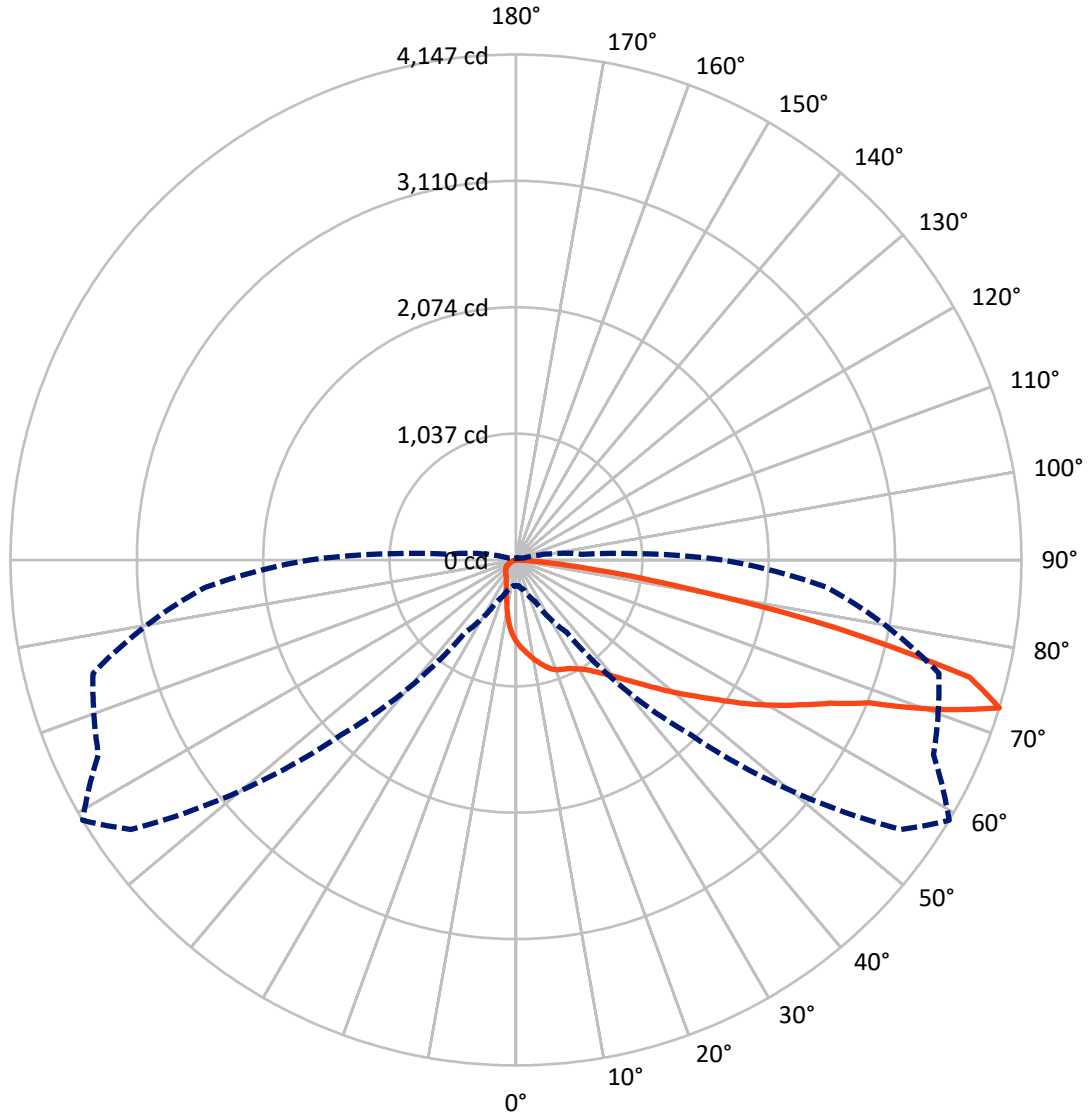
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 479.1    | 0.0    | 479.1  |
|                    | % Fixture | 10.6     | 0.0    | 10.6   |
| <b>Street Side</b> | Lumens    | 4056.9   | 0.0    | 4056.9 |
|                    | % Fixture | 89.4     | 0.0    | 89.4   |
| <b>Total</b>       | Lumens    | 4536.0   | 0.0    | 4536.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.7   | 1.3       |
| 10°-20°   | 161.2  | 3.6       |
| 20°-30°   | 255.5  | 5.6       |
| 30°-40°   | 410.0  | 9.0       |
| 40°-50°   | 654.8  | 14.4      |
| 50°-60°   | 948.1  | 20.9      |
| 60°-70°   | 1125.1 | 24.8      |
| 70°-80°   | 835.2  | 18.4      |
| 80°-90°   | 85.4   | 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°    | 4536.0 | 100.0     |
| 0°-180°   | 4536.0 | 100.0     |

**Coefficient of Utilization**



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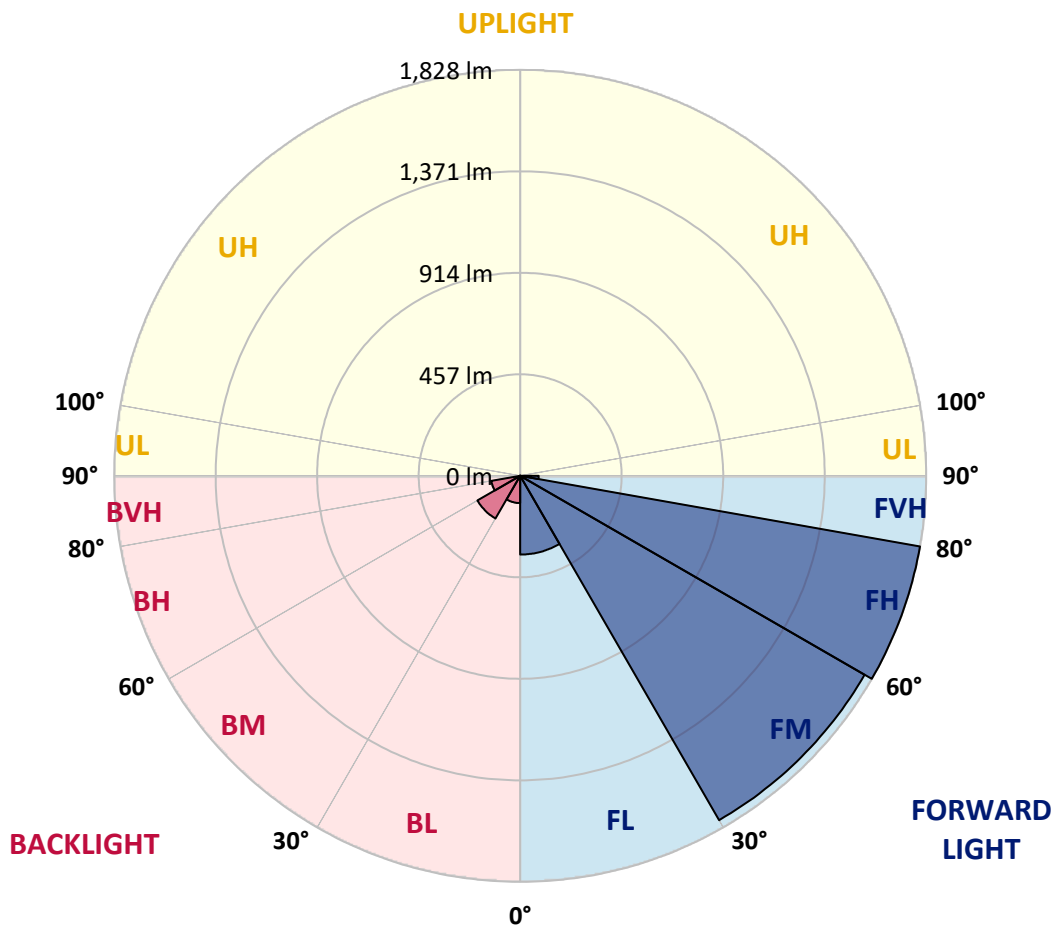
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 354.6  | 7.8       |                         |      |         |
| FM (30°-60°)   | 1790.7 | 39.5      |                         |      |         |
| FH (60°-80°)   | 1828.3 | 40.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 83.3   | 1.8       |                         |      | G1/100  |
| BL (0°-30°)    | 122.7  | 2.7       | B1/500                  |      |         |
| BM (30°-60°)   | 222.1  | 4.9       | B1/1000                 |      |         |
| BH (60°-80°)   | 132.1  | 2.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.1    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  | 670.8  |
| 2.5°  | 744.2  | 740.1  | 740.7  | 733.5  | 728.5  | 723.2  | 712.8  | 711.3  | 703.9  | 690.9  |
| 5°    | 809.1  | 806.4  | 804.0  | 796.0  | 785.7  | 772.6  | 755.2  | 748.9  | 735.3  | 712.8  |
| 7.5°  | 856.4  | 853.2  | 854.4  | 846.4  | 838.1  | 823.6  | 799.6  | 788.0  | 770.0  | 735.6  |
| 10°   | 865.6  | 863.9  | 871.6  | 874.5  | 874.5  | 865.3  | 841.9  | 830.4  | 804.0  | 760.2  |
| 12.5° | 814.1  | 814.4  | 833.6  | 856.7  | 887.0  | 895.5  | 879.8  | 867.4  | 841.3  | 786.3  |
| 15°   | 754.0  | 754.3  | 772.9  | 802.6  | 852.0  | 901.5  | 913.9  | 905.9  | 879.0  | 814.4  |
| 17.5° | 717.9  | 716.4  | 728.8  | 753.1  | 804.9  | 874.5  | 934.6  | 940.0  | 918.0  | 845.5  |
| 20°   | 712.8  | 710.2  | 716.7  | 728.8  | 765.8  | 840.8  | 937.0  | 962.2  | 958.3  | 880.7  |
| 22.5° | 743.6  | 739.5  | 735.9  | 736.5  | 752.2  | 812.6  | 931.1  | 974.6  | 999.8  | 923.1  |
| 25°   | 804.6  | 798.1  | 786.6  | 771.8  | 768.5  | 806.7  | 926.9  | 988.2  | 1038.3 | 977.3  |
| 27.5° | 879.3  | 870.1  | 847.9  | 825.6  | 806.7  | 823.3  | 935.5  | 1009.9 | 1081.8 | 1040.4 |
| 30°   | 961.3  | 950.0  | 927.8  | 885.8  | 855.6  | 860.3  | 956.0  | 1038.3 | 1137.5 | 1111.7 |
| 32.5° | 1081.8 | 1055.8 | 1017.0 | 952.7  | 912.7  | 900.3  | 986.8  | 1074.4 | 1206.5 | 1206.8 |
| 35°   | 1185.2 | 1170.7 | 1131.6 | 1051.6 | 969.6  | 953.3  | 1027.3 | 1125.3 | 1302.1 | 1332.6 |
| 37.5° | 1253.0 | 1233.1 | 1198.8 | 1138.7 | 1057.8 | 1007.8 | 1081.5 | 1187.8 | 1403.4 | 1476.0 |
| 40°   | 1328.8 | 1309.3 | 1263.6 | 1207.1 | 1160.3 | 1101.4 | 1149.9 | 1259.8 | 1514.5 | 1623.2 |
| 42.5° | 1420.3 | 1394.8 | 1340.9 | 1279.9 | 1231.1 | 1224.6 | 1239.4 | 1349.5 | 1628.5 | 1783.1 |
| 45°   | 1527.8 | 1503.8 | 1441.9 | 1364.9 | 1322.0 | 1310.4 | 1351.9 | 1454.1 | 1755.5 | 1958.4 |
| 47.5° | 1628.5 | 1600.7 | 1534.0 | 1463.8 | 1416.2 | 1379.7 | 1471.5 | 1577.6 | 1899.5 | 2141.7 |
| 50°   | 1714.1 | 1685.7 | 1624.6 | 1549.7 | 1517.4 | 1469.8 | 1589.1 | 1715.3 | 2042.2 | 2328.0 |
| 52.5° | 1772.7 | 1747.5 | 1675.9 | 1624.9 | 1603.0 | 1579.0 | 1726.8 | 1861.3 | 2184.4 | 2498.6 |
| 55°   | 1759.4 | 1736.9 | 1673.8 | 1670.3 | 1668.8 | 1693.9 | 1891.5 | 2026.8 | 2329.2 | 2660.0 |
| 57.5° | 1717.0 | 1691.6 | 1612.8 | 1667.0 | 1719.4 | 1796.4 | 2069.8 | 2222.6 | 2487.9 | 2812.2 |
| 60°   | 1592.4 | 1583.5 | 1535.5 | 1660.8 | 1740.7 | 1896.8 | 2273.5 | 2419.2 | 2659.7 | 2946.0 |
| 62.5° | 1328.5 | 1336.2 | 1335.9 | 1673.8 | 1779.2 | 2011.1 | 2458.6 | 2618.2 | 2827.6 | 3074.9 |
| 65°   | 994.7  | 1021.4 | 1055.5 | 1556.5 | 1830.8 | 2215.2 | 2679.8 | 2834.1 | 2998.2 | 3224.7 |
| 67.5° | 668.4  | 689.7  | 712.8  | 1277.0 | 1677.4 | 2429.6 | 3047.3 | 3129.9 | 3202.5 | 3390.8 |
| 70°   | 382.6  | 389.4  | 421.7  | 797.5  | 1293.0 | 2370.3 | 3645.8 | 3675.7 | 3507.2 | 3595.5 |
| 72.5° | 214.4  | 212.0  | 254.7  | 378.5  | 722.6  | 2029.8 | 3855.5 | 4147.2 | 3780.0 | 3592.2 |
| 75°   | 143.3  | 143.6  | 175.3  | 238.7  | 281.6  | 1420.9 | 3322.4 | 3845.4 | 3616.5 | 3185.3 |
| 77.5° | 97.7   | 101.0  | 128.8  | 184.5  | 130.3  | 693.3  | 2198.0 | 2693.7 | 2928.0 | 2459.8 |
| 80°   | 42.3   | 42.6   | 85.0   | 132.4  | 88.0   | 220.6  | 1139.6 | 1443.1 | 1836.4 | 1381.2 |
| 82.5° | 21.9   | 24.9   | 54.2   | 85.6   | 55.4   | 77.3   | 538.4  | 630.5  | 770.6  | 405.4  |
| 85°   | 7.7    | 9.2    | 33.5   | 42.1   | 27.8   | 27.5   | 187.5  | 191.0  | 163.2  | 61.0   |
| 87.5° | 0.0    | 1.5    | 13.0   | 10.4   | 3.6    | 3.3    | 22.2   | 18.7   | 14.8   | 8.6    |
| 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°  |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 670.8  | 0°    | 670.8  | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 | 670.8 |
| 677.6  | 2.5°  | 671.4  | 663.4 | 650.3 | 634.3 | 615.7 | 605.6 | 591.1 | 582.2 | 574.2 | 574.5 |
| 686.8  | 5°    | 672.2  | 658.9 | 625.8 | 590.5 | 551.4 | 522.7 | 490.7 | 468.2 | 451.0 | 446.9 |
| 696.2  | 7.5°  | 674.9  | 652.4 | 598.2 | 539.6 | 474.4 | 426.2 | 382.0 | 354.2 | 338.5 | 334.3 |
| 706.0  | 10°   | 678.5  | 645.3 | 567.1 | 477.4 | 396.5 | 338.5 | 301.8 | 284.0 | 276.9 | 271.6 |
| 718.4  | 12.5° | 681.4  | 637.9 | 528.0 | 413.1 | 327.2 | 281.9 | 254.1 | 239.3 | 233.1 | 229.2 |
| 733.0  | 15°   | 686.5  | 628.1 | 485.7 | 353.3 | 280.4 | 243.4 | 217.1 | 206.1 | 204.3 | 204.9 |
| 748.9  | 17.5° | 691.5  | 618.6 | 438.3 | 306.5 | 246.1 | 209.7 | 193.7 | 191.9 | 194.3 | 196.6 |
| 767.3  | 20°   | 697.1  | 605.0 | 390.3 | 271.3 | 214.4 | 186.3 | 182.1 | 183.3 | 184.5 | 188.6 |
| 792.5  | 22.5° | 705.4  | 587.8 | 348.3 | 241.4 | 188.1 | 175.0 | 172.9 | 173.8 | 174.7 | 178.9 |
| 825.6  | 25°   | 717.3  | 569.5 | 314.2 | 213.8 | 171.5 | 165.8 | 163.8 | 163.8 | 165.0 | 168.8 |
| 864.1  | 27.5° | 729.7  | 543.4 | 286.7 | 188.3 | 161.7 | 155.8 | 152.2 | 152.2 | 153.7 | 158.1 |
| 912.4  | 30°   | 743.6  | 519.7 | 265.0 | 169.4 | 153.4 | 145.7 | 141.0 | 139.8 | 141.6 | 147.2 |
| 982.3  | 32.5° | 768.8  | 504.3 | 249.6 | 160.5 | 146.0 | 136.5 | 130.0 | 126.7 | 128.5 | 135.0 |
| 1080.0 | 35°   | 807.0  | 500.8 | 239.0 | 156.1 | 138.9 | 128.2 | 119.0 | 114.0 | 115.5 | 122.3 |
| 1200.6 | 37.5° | 851.7  | 508.2 | 228.6 | 150.1 | 132.1 | 120.2 | 108.1 | 101.6 | 103.9 | 110.2 |
| 1338.3 | 40°   | 916.0  | 539.0 | 220.6 | 145.7 | 125.3 | 110.8 | 97.1  | 90.6  | 94.5  | 99.8  |
| 1481.6 | 42.5° | 993.6  | 593.8 | 218.6 | 141.6 | 117.0 | 100.7 | 87.1  | 82.3  | 85.3  | 90.3  |
| 1626.4 | 45°   | 1089.8 | 663.7 | 228.0 | 136.2 | 107.8 | 90.9  | 79.1  | 76.4  | 77.3  | 82.3  |
| 1763.2 | 47.5° | 1193.2 | 735.3 | 254.1 | 131.5 | 99.8  | 82.9  | 72.9  | 70.5  | 69.9  | 74.6  |
| 1888.2 | 50°   | 1297.7 | 799.0 | 284.9 | 127.9 | 94.2  | 76.4  | 68.1  | 65.2  | 63.7  | 66.6  |
| 2011.7 | 52.5° | 1401.1 | 849.6 | 305.0 | 122.0 | 88.5  | 69.9  | 64.0  | 59.5  | 56.9  | 58.3  |
| 2134.6 | 55°   | 1505.9 | 894.1 | 306.2 | 113.1 | 83.2  | 65.7  | 59.8  | 54.8  | 51.5  | 51.5  |
| 2253.1 | 57.5° | 1603.9 | 933.2 | 288.7 | 101.3 | 75.8  | 61.9  | 54.2  | 50.0  | 46.5  | 45.3  |
| 2358.2 | 60°   | 1690.7 | 962.2 | 259.7 | 88.0  | 69.3  | 56.9  | 48.6  | 45.3  | 40.9  | 38.5  |
| 2451.8 | 62.5° | 1768.0 | 976.4 | 220.0 | 74.3  | 61.3  | 50.9  | 43.2  | 39.7  | 33.8  | 30.8  |
| 2546.8 | 65°   | 1833.4 | 961.9 | 178.6 | 61.6  | 54.5  | 44.4  | 37.0  | 33.5  | 26.9  | 23.4  |
| 2653.7 | 67.5° | 1898.3 | 895.5 | 135.0 | 51.8  | 47.4  | 37.3  | 30.5  | 27.2  | 22.5  | 19.5  |
| 2731.6 | 70°   | 1906.6 | 756.1 | 94.5  | 43.5  | 39.4  | 28.7  | 24.6  | 22.5  | 18.4  | 15.7  |
| 2557.8 | 72.5° | 1697.2 | 544.0 | 57.5  | 35.5  | 30.8  | 20.4  | 19.5  | 17.8  | 13.6  | 11.8  |
| 2089.9 | 75°   | 1356.6 | 333.5 | 33.8  | 26.7  | 20.4  | 14.5  | 14.5  | 12.7  | 9.2   | 7.7   |
| 1442.8 | 77.5° | 937.6  | 174.4 | 19.8  | 17.2  | 12.1  | 8.6   | 9.5   | 7.7   | 4.4   | 3.6   |
| 571.6  | 80°   | 375.5  | 66.3  | 10.7  | 8.0   | 5.6   | 3.8   | 3.3   | 1.8   | 0.9   | 0.6   |
| 117.3  | 82.5° | 74.9   | 17.5  | 3.6   | 2.1   | 2.1   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   |
| 32.3   | 85°   | 19.2   | 3.8   | 0.9   | 0.6   | 0.6   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 10.7   | 87.5° | 5.9    | 0.0   | 0.0   | 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> |
| 670.8       |
| 581.0       |
| 453.1       |
| 338.5       |
| 274.8       |
| 231.3       |
| 205.8       |
| 197.5       |
| 189.8       |
| 180.1       |
| 170.3       |
| 159.9       |
| 148.7       |
| 136.8       |
| 124.4       |
| 111.9       |
| 100.7       |
| 91.2        |
| 84.7        |
| 77.6        |
| 67.8        |
| 59.5        |
| 52.1        |
| 45.6        |
| 37.9        |
| 30.5        |
| 23.4        |
| 19.5        |
| 15.4        |
| 11.5        |
| 7.7         |
| 3.6         |
| 0.9         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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