

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: P945341

Luminaire Tested: **GALN-SB1B-827-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945341
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-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 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: 3945 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

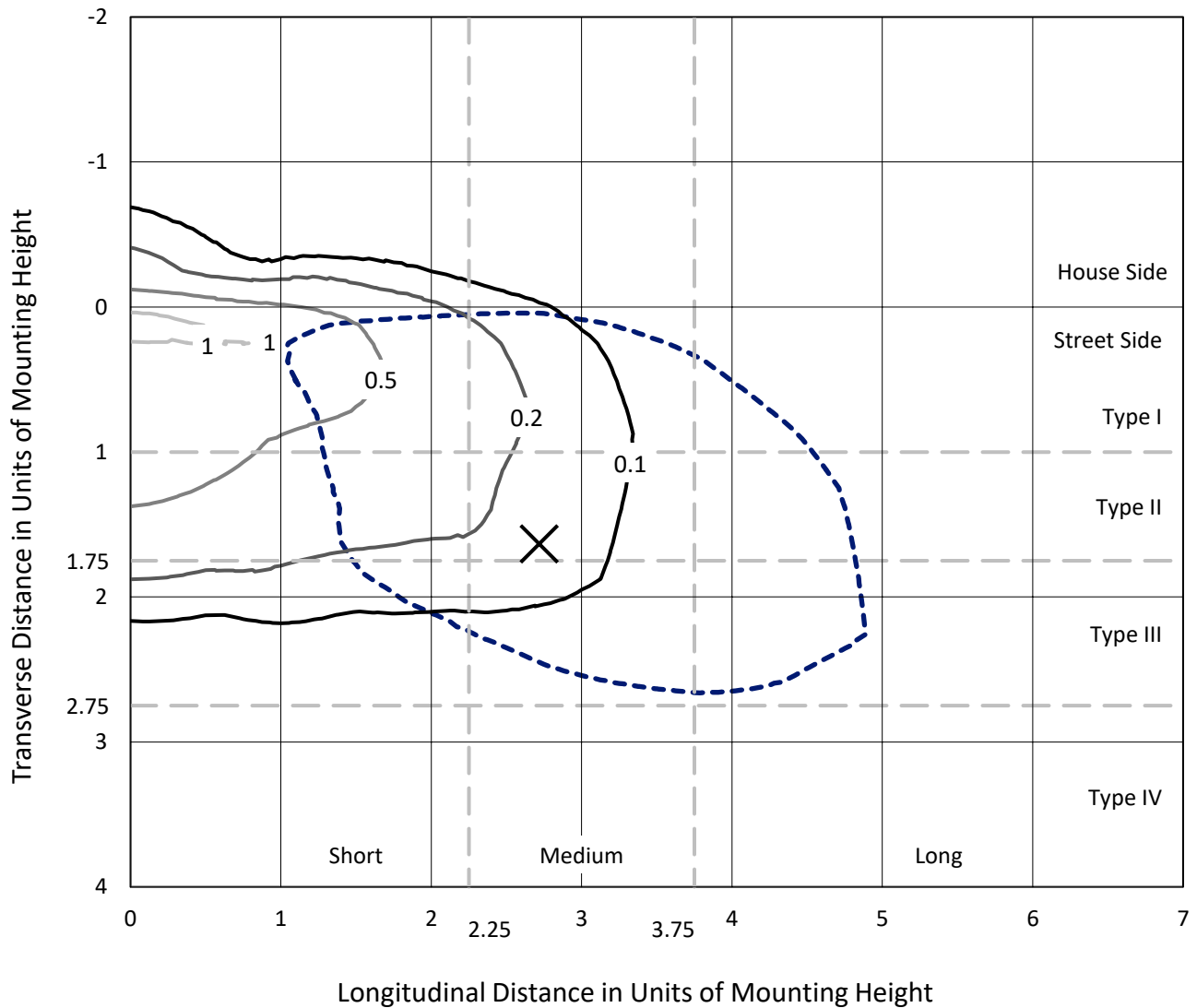
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

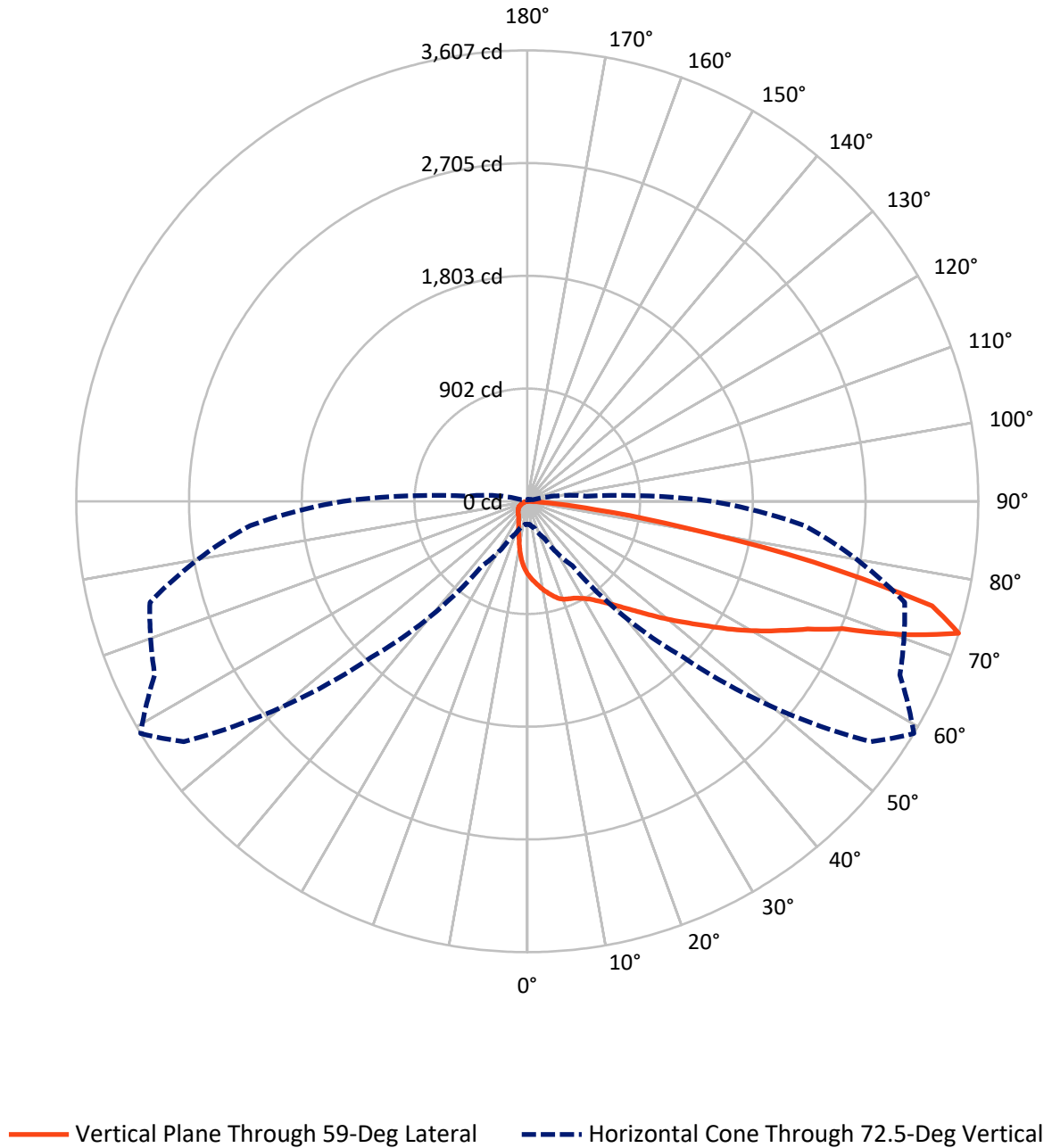
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 416.7 | 0.0 | 416.7 |
| | % Fixture | 10.6 | 0.0 | 10.6 |
| Street Side | Lumens | 3528.3 | 0.0 | 3528.3 |
| | % Fixture | 89.4 | 0.0 | 89.4 |
| Total | Lumens | 3945.0 | 0.0 | 3945.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.8 | 1.3 |
| 10°-20° | 140.2 | 3.6 |
| 20°-30° | 222.2 | 5.6 |
| 30°-40° | 356.6 | 9.0 |
| 40°-50° | 569.5 | 14.4 |
| 50°-60° | 824.6 | 20.9 |
| 60°-70° | 978.5 | 24.8 |
| 70°-80° | 726.4 | 18.4 |
| 80°-90° | 74.3 | 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° | 3945.0 | 100.0 |
| 0°-180° | 3945.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P945341

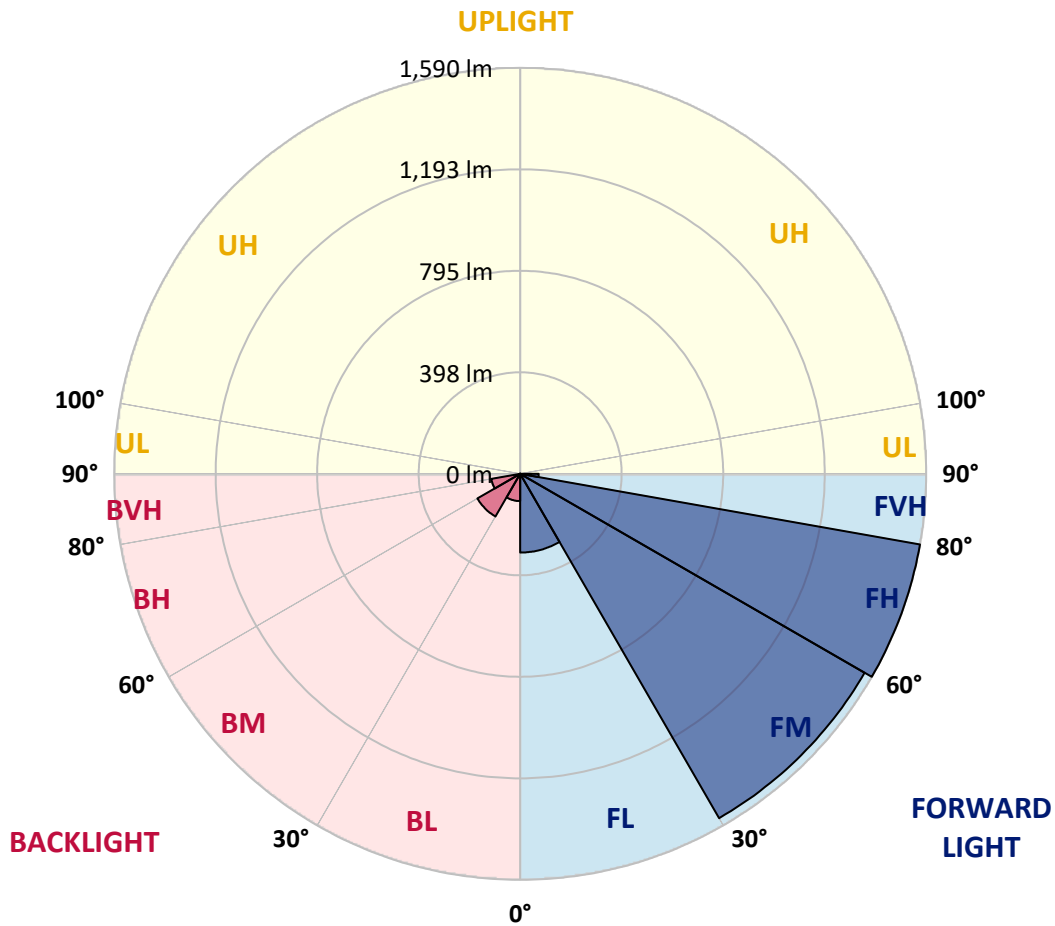
CATALOG NUMBER: GALN-SB1B-827-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 308.4 | 7.8 | | | |
| FM (30°-60°) | 1557.4 | 39.5 | | | |
| FH (60°-80°) | 1590.1 | 40.3 | | | G1/1800 |
| FVH (80°-90°) | 72.4 | 1.8 | | | G1/100 |
| BL (0°-30°) | 106.7 | 2.7 | B0/110 | | |
| BM (30°-60°) | 193.2 | 4.9 | B0/220 | | |
| BH (60°-80°) | 114.9 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G1

Type III Medium



REPORT NUMBER: P945341

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 |
| 2.5° | 647.2 | 643.6 | 644.2 | 638.0 | 633.6 | 629.0 | 619.9 | 618.7 | 612.2 | 600.9 |
| 5° | 703.7 | 701.3 | 699.3 | 692.3 | 683.3 | 672.0 | 656.8 | 651.4 | 639.5 | 619.9 |
| 7.5° | 744.9 | 742.0 | 743.1 | 736.1 | 728.9 | 716.3 | 695.4 | 685.4 | 669.7 | 639.8 |
| 10° | 752.8 | 751.3 | 758.0 | 760.6 | 760.6 | 752.6 | 732.2 | 722.2 | 699.3 | 661.2 |
| 12.5° | 708.0 | 708.3 | 725.0 | 745.1 | 771.4 | 778.9 | 765.2 | 754.4 | 731.7 | 683.8 |
| 15° | 655.7 | 656.0 | 672.2 | 698.0 | 741.0 | 784.0 | 794.8 | 787.9 | 764.4 | 708.3 |
| 17.5° | 624.3 | 623.0 | 633.9 | 655.0 | 700.0 | 760.6 | 812.9 | 817.5 | 798.4 | 735.3 |
| 20° | 619.9 | 617.6 | 623.3 | 633.9 | 666.0 | 731.2 | 814.9 | 836.8 | 833.5 | 766.0 |
| 22.5° | 646.7 | 643.1 | 640.0 | 640.5 | 654.2 | 706.7 | 809.8 | 847.6 | 869.5 | 802.8 |
| 25° | 699.8 | 694.1 | 684.1 | 671.2 | 668.4 | 701.6 | 806.2 | 859.5 | 903.0 | 849.9 |
| 27.5° | 764.7 | 756.7 | 737.4 | 718.1 | 701.6 | 716.0 | 813.6 | 878.3 | 940.9 | 904.8 |
| 30° | 836.0 | 826.2 | 806.9 | 770.4 | 744.1 | 748.2 | 831.4 | 903.0 | 989.3 | 966.9 |
| 32.5° | 940.9 | 918.2 | 884.5 | 828.6 | 793.8 | 783.0 | 858.2 | 934.4 | 1049.3 | 1049.6 |
| 35° | 1030.8 | 1018.1 | 984.1 | 914.6 | 843.2 | 829.1 | 893.5 | 978.7 | 1132.5 | 1159.0 |
| 37.5° | 1089.7 | 1072.5 | 1042.6 | 990.3 | 920.0 | 876.5 | 940.6 | 1033.1 | 1220.6 | 1283.7 |
| 40° | 1155.7 | 1138.7 | 1099.0 | 1049.8 | 1009.1 | 957.9 | 1000.1 | 1095.7 | 1317.2 | 1411.7 |
| 42.5° | 1235.3 | 1213.1 | 1166.2 | 1113.2 | 1070.7 | 1065.0 | 1077.9 | 1173.7 | 1416.3 | 1550.8 |
| 45° | 1328.7 | 1307.9 | 1254.1 | 1187.1 | 1149.7 | 1139.7 | 1175.8 | 1264.6 | 1526.8 | 1703.2 |
| 47.5° | 1416.3 | 1392.1 | 1334.2 | 1273.1 | 1231.6 | 1200.0 | 1279.8 | 1372.0 | 1652.0 | 1862.7 |
| 50° | 1490.8 | 1466.0 | 1413.0 | 1347.8 | 1319.7 | 1278.3 | 1382.1 | 1491.8 | 1776.1 | 2024.7 |
| 52.5° | 1541.7 | 1519.9 | 1457.5 | 1413.2 | 1394.2 | 1373.3 | 1501.8 | 1618.8 | 1899.8 | 2173.0 |
| 55° | 1530.2 | 1510.6 | 1455.7 | 1452.6 | 1451.3 | 1473.2 | 1645.0 | 1762.7 | 2025.7 | 2313.4 |
| 57.5° | 1493.3 | 1471.2 | 1402.7 | 1449.8 | 1495.4 | 1562.4 | 1800.1 | 1933.0 | 2163.8 | 2445.8 |
| 60° | 1384.9 | 1377.2 | 1335.4 | 1444.4 | 1513.9 | 1649.7 | 1977.3 | 2104.0 | 2313.1 | 2562.2 |
| 62.5° | 1155.4 | 1162.1 | 1161.8 | 1455.7 | 1547.4 | 1749.1 | 2138.3 | 2277.1 | 2459.2 | 2674.2 |
| 65° | 865.1 | 888.3 | 917.9 | 1353.7 | 1592.2 | 1926.5 | 2330.7 | 2464.8 | 2607.5 | 2804.6 |
| 67.5° | 581.3 | 599.9 | 619.9 | 1110.6 | 1458.8 | 2113.0 | 2650.3 | 2722.1 | 2785.2 | 2949.1 |
| 70° | 332.8 | 338.7 | 366.8 | 693.6 | 1124.5 | 2061.5 | 3170.8 | 3196.8 | 3050.3 | 3127.0 |
| 72.5° | 186.5 | 184.4 | 221.5 | 329.2 | 628.4 | 1765.3 | 3353.2 | 3606.9 | 3287.5 | 3124.2 |
| 75° | 124.7 | 124.9 | 152.5 | 207.6 | 244.9 | 1235.8 | 2889.6 | 3344.4 | 3145.3 | 2770.3 |
| 77.5° | 85.0 | 87.8 | 112.0 | 160.5 | 113.3 | 602.9 | 1911.6 | 2342.8 | 2546.5 | 2139.3 |
| 80° | 36.8 | 37.1 | 73.9 | 115.1 | 76.5 | 191.9 | 991.1 | 1255.1 | 1597.1 | 1201.3 |
| 82.5° | 19.1 | 21.6 | 47.1 | 74.4 | 48.2 | 67.2 | 468.2 | 548.3 | 670.2 | 352.6 |
| 85° | 6.7 | 8.0 | 29.1 | 36.6 | 24.2 | 24.0 | 163.0 | 166.1 | 141.9 | 53.1 |
| 87.5° | 0.0 | 1.3 | 11.3 | 9.0 | 3.1 | 2.8 | 19.3 | 16.2 | 12.9 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945341
 CATALOG NUMBER: GALN-SB1B-827-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 583.4 | 0° | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 | 583.4 |
| 589.3 | 2.5° | 583.9 | 576.9 | 565.6 | 551.7 | 535.5 | 526.7 | 514.1 | 506.4 | 499.4 | 499.7 |
| 597.3 | 5° | 584.7 | 573.1 | 544.2 | 513.6 | 479.6 | 454.6 | 426.8 | 407.2 | 392.3 | 388.7 |
| 605.5 | 7.5° | 587.0 | 567.4 | 520.3 | 469.3 | 412.6 | 370.6 | 332.3 | 308.0 | 294.4 | 290.8 |
| 614.0 | 10° | 590.1 | 561.2 | 493.2 | 415.2 | 344.9 | 294.4 | 262.5 | 247.0 | 240.8 | 236.2 |
| 624.8 | 12.5° | 592.6 | 554.8 | 459.2 | 359.3 | 284.6 | 245.2 | 221.0 | 208.1 | 202.7 | 199.4 |
| 637.5 | 15° | 597.0 | 546.3 | 422.4 | 307.3 | 243.9 | 211.7 | 188.8 | 179.3 | 177.7 | 178.2 |
| 651.4 | 17.5° | 601.4 | 538.0 | 381.2 | 266.6 | 214.0 | 182.4 | 168.4 | 166.9 | 169.0 | 171.0 |
| 667.3 | 20° | 606.3 | 526.2 | 339.5 | 235.9 | 186.5 | 162.0 | 158.4 | 159.4 | 160.5 | 164.1 |
| 689.2 | 22.5° | 613.5 | 511.3 | 302.9 | 209.9 | 163.6 | 152.2 | 150.4 | 151.2 | 152.0 | 155.6 |
| 718.1 | 25° | 623.8 | 495.3 | 273.3 | 186.0 | 149.1 | 144.2 | 142.4 | 142.4 | 143.5 | 146.8 |
| 751.6 | 27.5° | 634.6 | 472.6 | 249.3 | 163.8 | 140.6 | 135.5 | 132.4 | 132.4 | 133.7 | 137.5 |
| 793.5 | 30° | 646.7 | 452.0 | 230.5 | 147.3 | 133.4 | 126.7 | 122.6 | 121.6 | 123.1 | 128.0 |
| 854.3 | 32.5° | 668.6 | 438.6 | 217.1 | 139.6 | 127.0 | 118.7 | 113.1 | 110.2 | 111.8 | 117.4 |
| 939.3 | 35° | 701.8 | 435.5 | 207.9 | 135.7 | 120.8 | 111.5 | 103.5 | 99.2 | 100.4 | 106.4 |
| 1044.1 | 37.5° | 740.7 | 442.0 | 198.8 | 130.6 | 114.9 | 104.6 | 94.0 | 88.3 | 90.4 | 95.8 |
| 1163.9 | 40° | 796.6 | 468.8 | 191.9 | 126.7 | 108.9 | 96.3 | 84.5 | 78.8 | 82.2 | 86.8 |
| 1288.6 | 42.5° | 864.1 | 516.4 | 190.1 | 123.1 | 101.7 | 87.6 | 75.7 | 71.6 | 74.2 | 78.6 |
| 1414.5 | 45° | 947.8 | 577.2 | 198.3 | 118.5 | 93.8 | 79.1 | 68.8 | 66.5 | 67.2 | 71.6 |
| 1533.5 | 47.5° | 1037.7 | 639.5 | 221.0 | 114.4 | 86.8 | 72.1 | 63.4 | 61.3 | 60.8 | 64.9 |
| 1642.2 | 50° | 1128.6 | 694.9 | 247.8 | 111.3 | 81.9 | 66.5 | 59.2 | 56.7 | 55.4 | 58.0 |
| 1749.6 | 52.5° | 1218.5 | 738.9 | 265.3 | 106.1 | 77.0 | 60.8 | 55.6 | 51.8 | 49.5 | 50.7 |
| 1856.5 | 55° | 1309.7 | 777.6 | 266.3 | 98.4 | 72.4 | 57.2 | 52.0 | 47.6 | 44.8 | 44.8 |
| 1959.5 | 57.5° | 1394.9 | 811.6 | 251.1 | 88.1 | 65.9 | 53.8 | 47.1 | 43.5 | 40.4 | 39.4 |
| 2050.9 | 60° | 1470.4 | 836.8 | 225.9 | 76.5 | 60.3 | 49.5 | 42.2 | 39.4 | 35.5 | 33.5 |
| 2132.3 | 62.5° | 1537.6 | 849.2 | 191.4 | 64.6 | 53.3 | 44.3 | 37.6 | 34.5 | 29.4 | 26.8 |
| 2215.0 | 65° | 1594.5 | 836.6 | 155.3 | 53.6 | 47.4 | 38.6 | 32.2 | 29.1 | 23.4 | 20.3 |
| 2308.0 | 67.5° | 1651.0 | 778.9 | 117.4 | 45.1 | 41.2 | 32.5 | 26.5 | 23.7 | 19.6 | 17.0 |
| 2375.7 | 70° | 1658.2 | 657.5 | 82.2 | 37.9 | 34.3 | 25.0 | 21.4 | 19.6 | 16.0 | 13.7 |
| 2224.5 | 72.5° | 1476.1 | 473.1 | 50.0 | 30.9 | 26.8 | 17.8 | 17.0 | 15.5 | 11.8 | 10.3 |
| 1817.6 | 75° | 1179.9 | 290.0 | 29.4 | 23.2 | 17.8 | 12.6 | 12.6 | 11.1 | 8.0 | 6.7 |
| 1254.8 | 77.5° | 815.4 | 151.7 | 17.3 | 14.9 | 10.6 | 7.5 | 8.2 | 6.7 | 3.9 | 3.1 |
| 497.1 | 80° | 326.6 | 57.7 | 9.3 | 7.0 | 4.9 | 3.3 | 2.8 | 1.5 | 0.8 | 0.5 |
| 102.0 | 82.5° | 65.2 | 15.2 | 3.1 | 1.8 | 1.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 28.1 | 85° | 16.7 | 3.3 | 0.8 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9.3 | 87.5° | 5.2 | 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> |
| 583.4 |
| 505.3 |
| 394.1 |
| 294.4 |
| 239.0 |
| 201.2 |
| 179.0 |
| 171.8 |
| 165.1 |
| 156.6 |
| 148.1 |
| 139.1 |
| 129.3 |
| 119.0 |
| 108.2 |
| 97.4 |
| 87.6 |
| 79.3 |
| 73.7 |
| 67.5 |
| 59.0 |
| 51.8 |
| 45.3 |
| 39.7 |
| 33.0 |
| 26.5 |
| 20.3 |
| 17.0 |
| 13.4 |
| 10.0 |
| 6.7 |
| 3.1 |
| 0.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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