

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: P945769

Luminaire Tested: **GALN-SB1C-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945769
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-SB1C-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 5476 lumens
Efficiency: N/A
Efficacy: 100.7 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

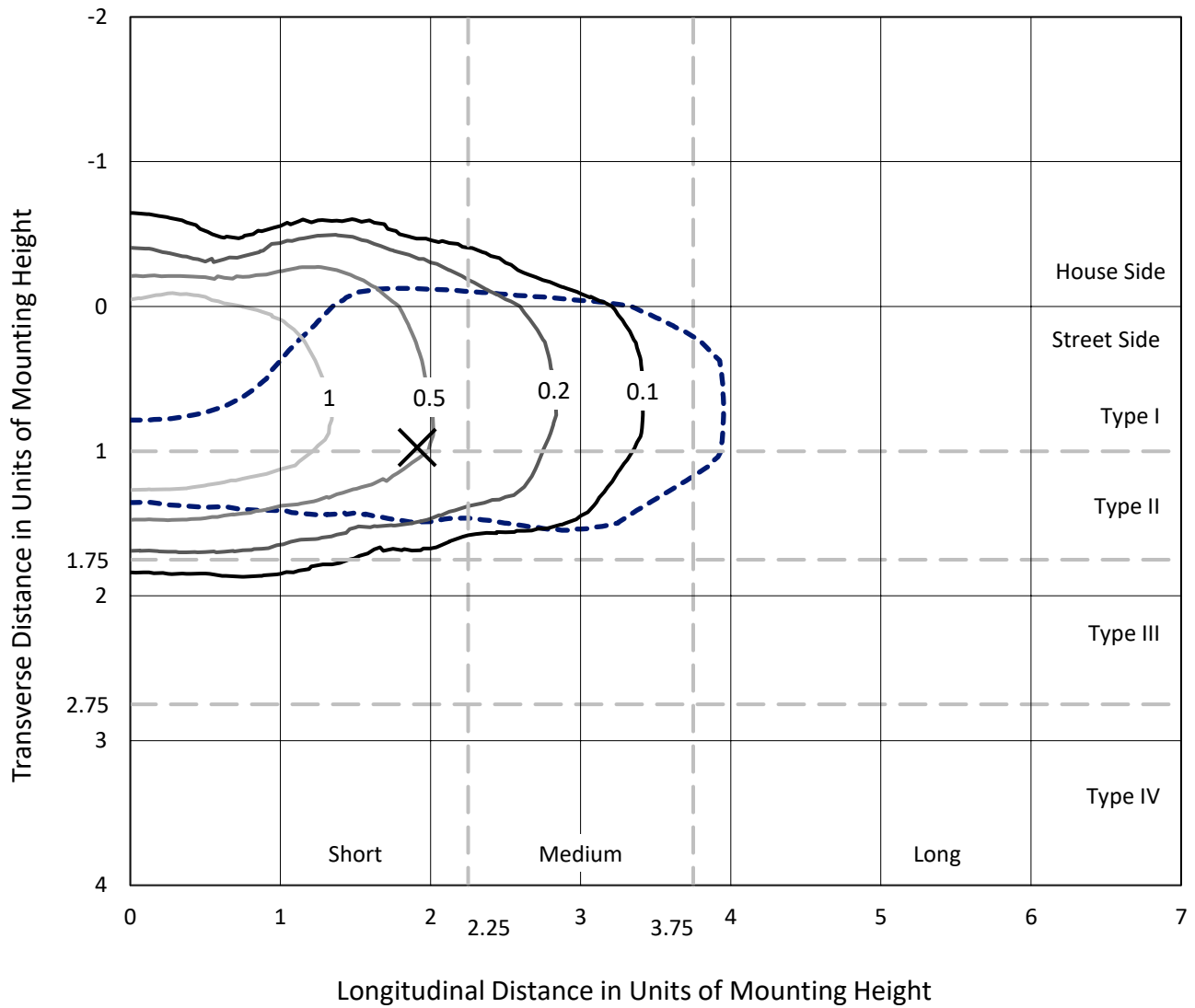
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

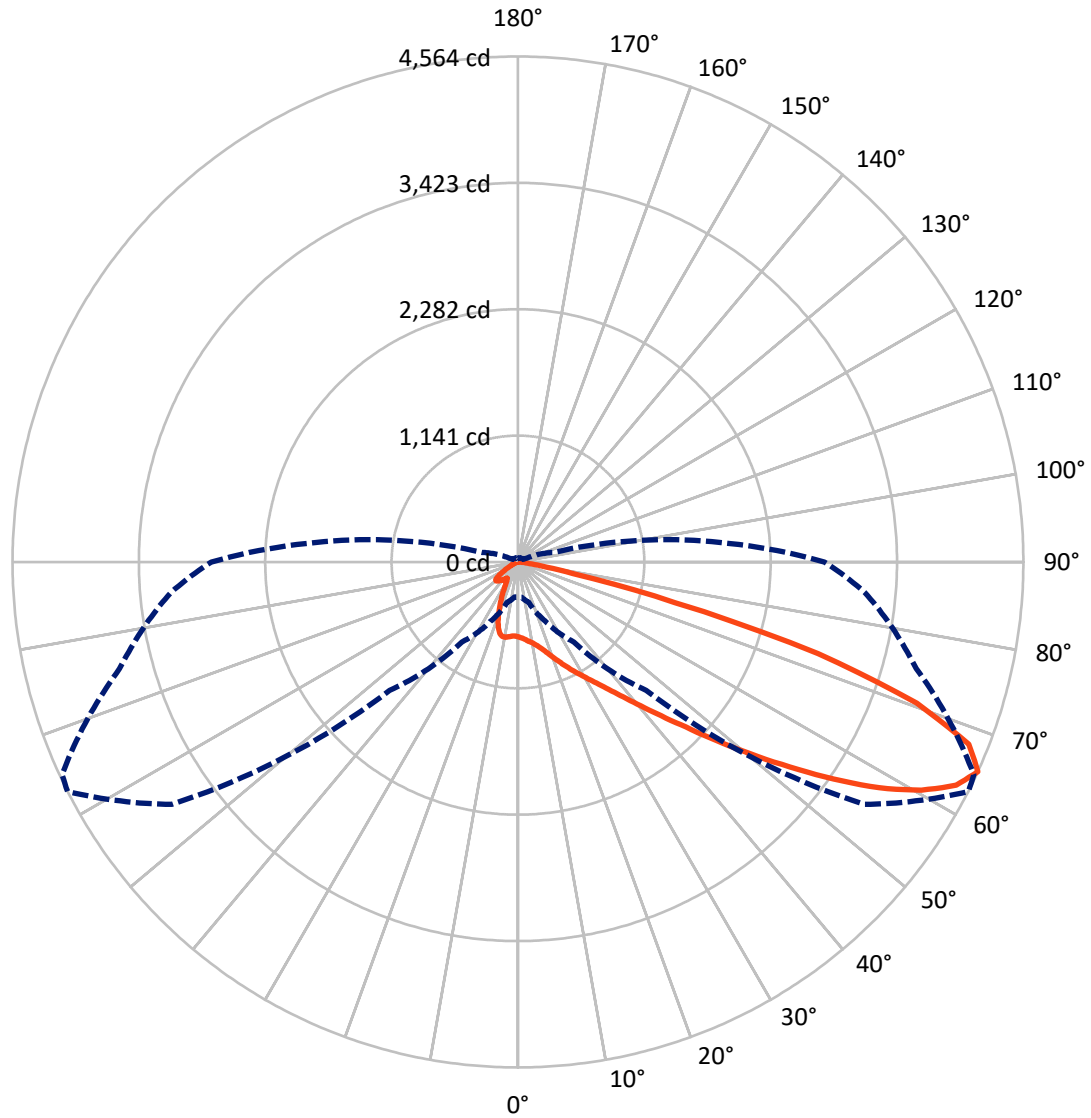
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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 |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 804.9 | 0.0 | 804.9 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 4671.1 | 0.0 | 4671.1 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 5476.0 | 0.0 | 5476.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.7 | 1.2 |
| 10°-20° | 176.7 | 3.2 |
| 20°-30° | 307.6 | 5.6 |
| 30°-40° | 554.5 | 10.1 |
| 40°-50° | 1099.7 | 20.1 |
| 50°-60° | 1498.0 | 27.4 |
| 60°-70° | 1195.7 | 21.8 |
| 70°-80° | 541.1 | 9.9 |
| 80°-90° | 38.9 | 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° | 5476.0 | 100.0 |
| 0°-180° | 5476.0 | 100.0 |

Coefficient of Utilization

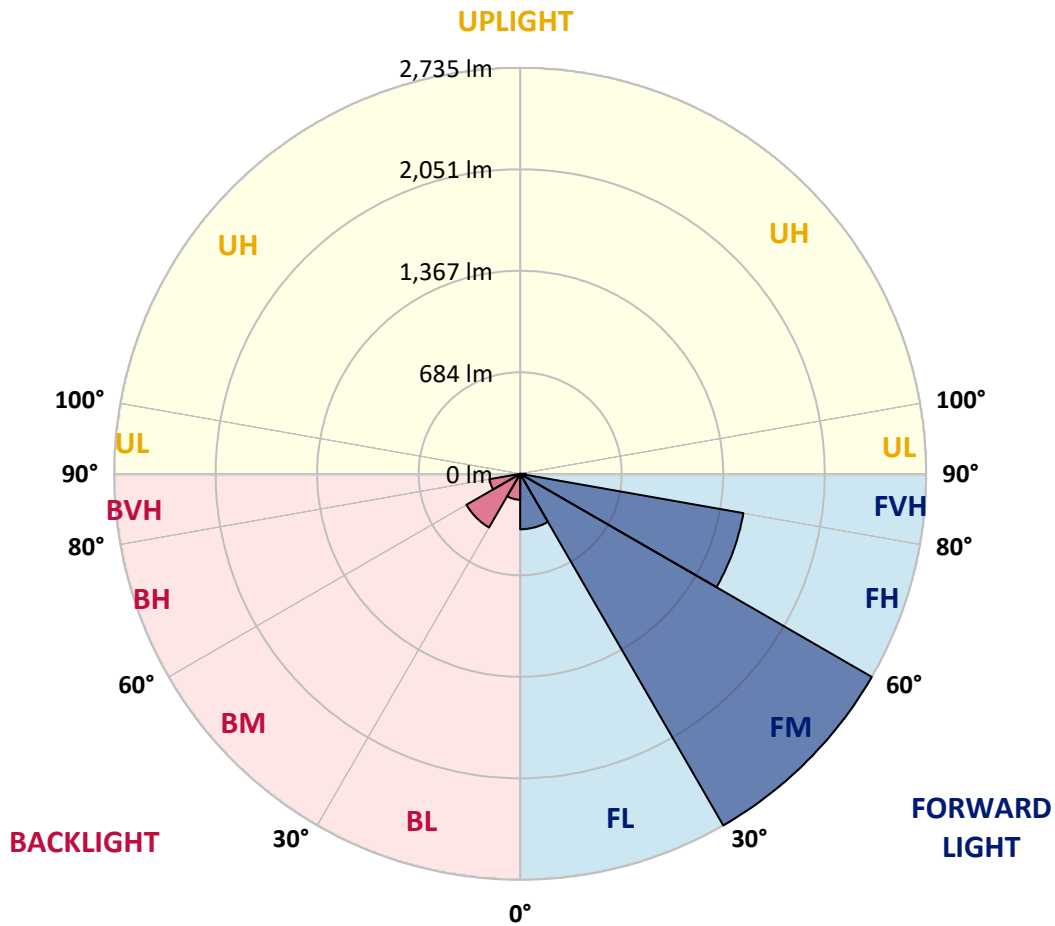


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 373.8 | 6.8 | | | |
| FM (30°-60°) | 2734.6 | 49.9 | | | |
| FH (60°-80°) | 1526.7 | 27.9 | | | G1/1800 |
| FVH (80°-90°) | 36.0 | 0.7 | | | G1/100 |
| BL (0°-30°) | 174.2 | 3.2 | B1/500 | | |
| BM (30°-60°) | 417.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 210.1 | 3.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.9 | 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° | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 |
| 2.5° | 691.7 | 689.8 | 692.4 | 691.3 | 690.5 | 689.0 | 688.3 | 687.5 | 686.0 | 684.9 |
| 5° | 693.5 | 692.4 | 695.1 | 697.3 | 699.6 | 701.8 | 703.0 | 704.5 | 703.0 | 700.0 |
| 7.5° | 677.7 | 677.0 | 682.6 | 689.4 | 699.6 | 708.2 | 717.7 | 722.9 | 723.3 | 722.2 |
| 10° | 676.6 | 674.7 | 680.4 | 688.7 | 701.8 | 717.3 | 733.9 | 745.2 | 746.7 | 751.6 |
| 12.5° | 694.3 | 692.4 | 700.3 | 709.4 | 722.9 | 739.1 | 759.5 | 775.3 | 777.6 | 784.3 |
| 15° | 724.1 | 721.4 | 730.5 | 742.1 | 759.5 | 777.9 | 799.4 | 813.7 | 815.6 | 823.9 |
| 17.5° | 758.7 | 756.1 | 766.6 | 779.1 | 797.9 | 823.1 | 848.0 | 863.8 | 866.1 | 871.4 |
| 20° | 803.2 | 799.8 | 808.1 | 819.4 | 839.3 | 869.5 | 899.2 | 921.8 | 921.5 | 921.5 |
| 22.5° | 854.8 | 849.5 | 856.7 | 865.7 | 884.5 | 921.1 | 960.6 | 987.4 | 987.4 | 976.8 |
| 25° | 910.2 | 904.9 | 912.8 | 921.1 | 937.7 | 979.1 | 1025.4 | 1058.6 | 1060.1 | 1042.0 |
| 27.5° | 979.5 | 972.7 | 978.7 | 988.5 | 998.3 | 1040.5 | 1095.5 | 1133.9 | 1134.7 | 1106.8 |
| 30° | 1112.8 | 1093.6 | 1074.8 | 1064.2 | 1068.8 | 1110.6 | 1169.3 | 1211.9 | 1215.7 | 1177.3 |
| 32.5° | 1357.0 | 1353.2 | 1286.9 | 1200.2 | 1155.0 | 1185.9 | 1251.9 | 1303.1 | 1305.3 | 1256.0 |
| 35° | 1736.3 | 1731.8 | 1625.2 | 1460.2 | 1312.9 | 1286.9 | 1352.1 | 1412.7 | 1411.2 | 1355.5 |
| 37.5° | 2189.1 | 2185.0 | 2044.5 | 1823.7 | 1585.3 | 1439.5 | 1481.3 | 1544.9 | 1554.4 | 1481.3 |
| 40° | 2576.0 | 2560.6 | 2471.7 | 2258.8 | 1946.9 | 1692.6 | 1665.1 | 1707.3 | 1717.1 | 1630.5 |
| 42.5° | 2869.1 | 2855.9 | 2810.7 | 2677.8 | 2384.7 | 2067.1 | 1881.7 | 1897.9 | 1908.9 | 1804.9 |
| 45° | 3020.9 | 3017.9 | 3036.0 | 3023.6 | 2830.7 | 2526.7 | 2191.4 | 2124.0 | 2128.1 | 1998.1 |
| 47.5° | 3042.4 | 3040.9 | 3123.4 | 3240.2 | 3214.2 | 3045.1 | 2588.8 | 2405.8 | 2391.1 | 2216.3 |
| 50° | 2915.8 | 2912.8 | 3071.0 | 3289.9 | 3470.4 | 3480.5 | 3040.2 | 2723.3 | 2690.9 | 2441.9 |
| 52.5° | 2511.6 | 2510.9 | 2770.8 | 3135.1 | 3560.4 | 3861.8 | 3486.2 | 3072.2 | 3017.9 | 2680.8 |
| 55° | 1932.6 | 1946.5 | 2244.5 | 2675.1 | 3396.2 | 4045.3 | 3886.7 | 3459.5 | 3376.2 | 2921.1 |
| 57.5° | 1369.0 | 1389.4 | 1684.0 | 2067.5 | 2886.8 | 3936.8 | 4157.5 | 3847.5 | 3757.8 | 3160.7 |
| 60° | 735.4 | 753.4 | 1048.4 | 1506.1 | 2147.7 | 3532.2 | 4300.3 | 4184.3 | 4099.5 | 3388.3 |
| 62.5° | 438.1 | 444.2 | 566.2 | 972.3 | 1452.6 | 2698.5 | 4239.6 | 4440.8 | 4371.1 | 3579.2 |
| 65° | 314.6 | 315.7 | 377.1 | 593.7 | 881.9 | 1639.5 | 3814.3 | 4563.6 | 4542.2 | 3723.2 |
| 67.5° | 264.8 | 264.1 | 289.7 | 394.4 | 600.9 | 821.3 | 2923.4 | 4390.0 | 4481.1 | 3814.3 |
| 70° | 227.2 | 228.3 | 258.4 | 288.9 | 451.7 | 464.9 | 1453.4 | 3822.2 | 4016.6 | 3838.4 |
| 72.5° | 169.1 | 172.9 | 200.8 | 263.3 | 340.9 | 319.8 | 501.8 | 2834.1 | 3185.6 | 3616.5 |
| 75° | 119.4 | 121.3 | 141.3 | 221.5 | 254.3 | 232.8 | 256.2 | 1465.1 | 1915.6 | 2772.7 |
| 77.5° | 91.9 | 95.3 | 107.0 | 154.8 | 250.5 | 163.5 | 156.7 | 507.1 | 779.1 | 1674.9 |
| 80° | 49.7 | 55.8 | 77.2 | 111.9 | 175.9 | 115.7 | 77.6 | 201.9 | 264.1 | 783.2 |
| 82.5° | 25.6 | 28.6 | 53.9 | 80.6 | 100.2 | 101.0 | 38.4 | 84.0 | 108.9 | 241.9 |
| 85° | 10.2 | 12.4 | 36.2 | 44.5 | 51.6 | 49.7 | 17.3 | 33.9 | 39.2 | 67.1 |
| 87.5° | 2.3 | 3.8 | 13.2 | 10.2 | 9.8 | 10.5 | 4.1 | 7.9 | 7.5 | 7.9 |
| 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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 CATALOG NUMBER: GALN-SB1C-840-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 675.8 | 0° | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 | 675.8 |
| 680.4 | 2.5° | 680.0 | 678.5 | 674.3 | 669.8 | 664.5 | 661.5 | 659.6 | 659.3 | 656.6 | 654.7 |
| 695.4 | 5° | 691.3 | 689.8 | 681.9 | 672.5 | 662.3 | 654.4 | 646.8 | 640.1 | 630.3 | 628.4 |
| 717.3 | 7.5° | 713.9 | 709.7 | 696.9 | 684.1 | 664.9 | 641.9 | 614.1 | 582.0 | 553.4 | 544.7 |
| 746.3 | 10° | 741.8 | 736.1 | 719.9 | 697.3 | 654.7 | 592.2 | 524.8 | 462.2 | 412.5 | 398.6 |
| 780.6 | 12.5° | 773.4 | 768.5 | 747.0 | 705.2 | 612.2 | 498.8 | 395.6 | 318.0 | 269.7 | 257.7 |
| 817.1 | 15° | 811.1 | 803.9 | 774.2 | 693.2 | 536.1 | 379.0 | 271.6 | 225.7 | 208.3 | 206.1 |
| 858.9 | 17.5° | 851.0 | 839.3 | 798.3 | 649.8 | 433.6 | 269.4 | 209.8 | 196.6 | 189.1 | 186.9 |
| 901.1 | 20° | 887.6 | 872.5 | 812.6 | 584.3 | 324.0 | 209.8 | 188.0 | 179.3 | 172.5 | 169.9 |
| 943.3 | 22.5° | 924.1 | 902.6 | 812.6 | 495.0 | 243.0 | 186.1 | 172.5 | 164.6 | 156.7 | 153.3 |
| 988.5 | 25° | 962.2 | 933.5 | 798.3 | 395.6 | 195.5 | 170.7 | 157.8 | 149.2 | 142.4 | 138.3 |
| 1031.5 | 27.5° | 999.1 | 959.5 | 765.5 | 301.4 | 174.0 | 157.1 | 144.3 | 136.0 | 129.6 | 126.6 |
| 1078.2 | 30° | 1034.1 | 985.1 | 719.5 | 228.7 | 160.1 | 143.9 | 131.9 | 124.7 | 118.3 | 115.3 |
| 1138.8 | 32.5° | 1081.6 | 1017.5 | 670.6 | 187.6 | 148.1 | 131.5 | 120.6 | 113.8 | 108.1 | 105.9 |
| 1217.6 | 35° | 1147.5 | 1065.4 | 628.4 | 184.2 | 137.9 | 121.3 | 110.4 | 104.0 | 98.3 | 96.4 |
| 1319.3 | 37.5° | 1240.9 | 1142.6 | 606.1 | 206.8 | 129.6 | 112.3 | 102.1 | 95.3 | 90.0 | 88.5 |
| 1448.5 | 40° | 1356.2 | 1247.3 | 618.2 | 229.4 | 123.9 | 104.4 | 94.6 | 87.8 | 83.3 | 81.4 |
| 1596.9 | 42.5° | 1493.0 | 1376.5 | 684.9 | 246.8 | 120.2 | 97.6 | 87.4 | 79.9 | 76.9 | 76.1 |
| 1765.3 | 45° | 1650.0 | 1518.6 | 787.0 | 265.2 | 114.1 | 91.2 | 80.2 | 74.6 | 72.3 | 72.0 |
| 1948.4 | 47.5° | 1828.6 | 1674.5 | 905.3 | 288.2 | 108.1 | 85.1 | 74.6 | 70.8 | 68.9 | 68.2 |
| 2139.4 | 50° | 2005.7 | 1831.6 | 1026.9 | 301.0 | 103.2 | 79.5 | 70.1 | 67.1 | 65.5 | 65.2 |
| 2341.3 | 52.5° | 2191.0 | 1993.2 | 1125.3 | 288.9 | 99.1 | 75.0 | 66.3 | 64.0 | 62.5 | 62.2 |
| 2527.4 | 55° | 2367.7 | 2124.0 | 1142.2 | 245.2 | 90.8 | 70.4 | 62.2 | 61.0 | 59.1 | 59.1 |
| 2716.2 | 57.5° | 2519.9 | 2189.5 | 1022.4 | 180.1 | 82.5 | 63.7 | 58.0 | 56.9 | 55.4 | 55.0 |
| 2886.5 | 60° | 2659.7 | 2170.7 | 789.2 | 121.3 | 73.5 | 56.9 | 52.7 | 52.0 | 50.5 | 48.6 |
| 3034.5 | 62.5° | 2738.4 | 2087.8 | 539.8 | 79.1 | 64.4 | 49.7 | 46.7 | 46.3 | 42.9 | 39.2 |
| 3144.1 | 65° | 2768.2 | 1917.5 | 336.8 | 57.6 | 53.9 | 42.6 | 40.3 | 39.6 | 34.7 | 30.5 |
| 3206.3 | 67.5° | 2742.2 | 1637.2 | 169.9 | 45.6 | 42.6 | 35.4 | 33.2 | 33.2 | 29.8 | 26.0 |
| 3202.5 | 70° | 2638.2 | 1227.4 | 71.6 | 36.5 | 32.8 | 27.1 | 27.1 | 28.6 | 25.2 | 21.1 |
| 3036.4 | 72.5° | 2412.5 | 825.8 | 38.0 | 27.9 | 24.5 | 19.2 | 22.2 | 23.4 | 20.0 | 15.8 |
| 2485.2 | 75° | 1917.9 | 503.7 | 26.4 | 20.7 | 15.4 | 13.6 | 17.0 | 17.7 | 13.6 | 10.5 |
| 1703.9 | 77.5° | 1311.8 | 289.3 | 17.7 | 13.2 | 9.8 | 7.9 | 11.7 | 10.9 | 7.2 | 4.9 |
| 657.0 | 80° | 576.0 | 120.6 | 10.2 | 6.0 | 3.8 | 3.0 | 4.1 | 3.0 | 2.3 | 1.5 |
| 90.0 | 82.5° | 67.4 | 28.3 | 3.8 | 2.3 | 1.5 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 |
| 27.5 | 85° | 13.9 | 3.4 | 1.9 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4.9 | 87.5° | 2.6 | 0.8 | 0.4 | 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 |

(END O

| |
|-------------|
| <u>180°</u> |
| 675.8 |
| 656.6 |
| 627.6 |
| 540.6 |
| 393.3 |
| 254.3 |
| 203.8 |
| 185.7 |
| 168.4 |
| 151.4 |
| 136.8 |
| 126.6 |
| 115.7 |
| 105.9 |
| 96.4 |
| 88.2 |
| 81.0 |
| 76.1 |
| 71.6 |
| 68.2 |
| 65.2 |
| 62.2 |
| 58.8 |
| 54.6 |
| 48.2 |
| 38.4 |
| 30.1 |
| 25.6 |
| 20.7 |
| 15.8 |
| 10.2 |
| 5.3 |
| 1.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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