

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: P946592

Luminaire Tested: **GALN-SB2A-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5007 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

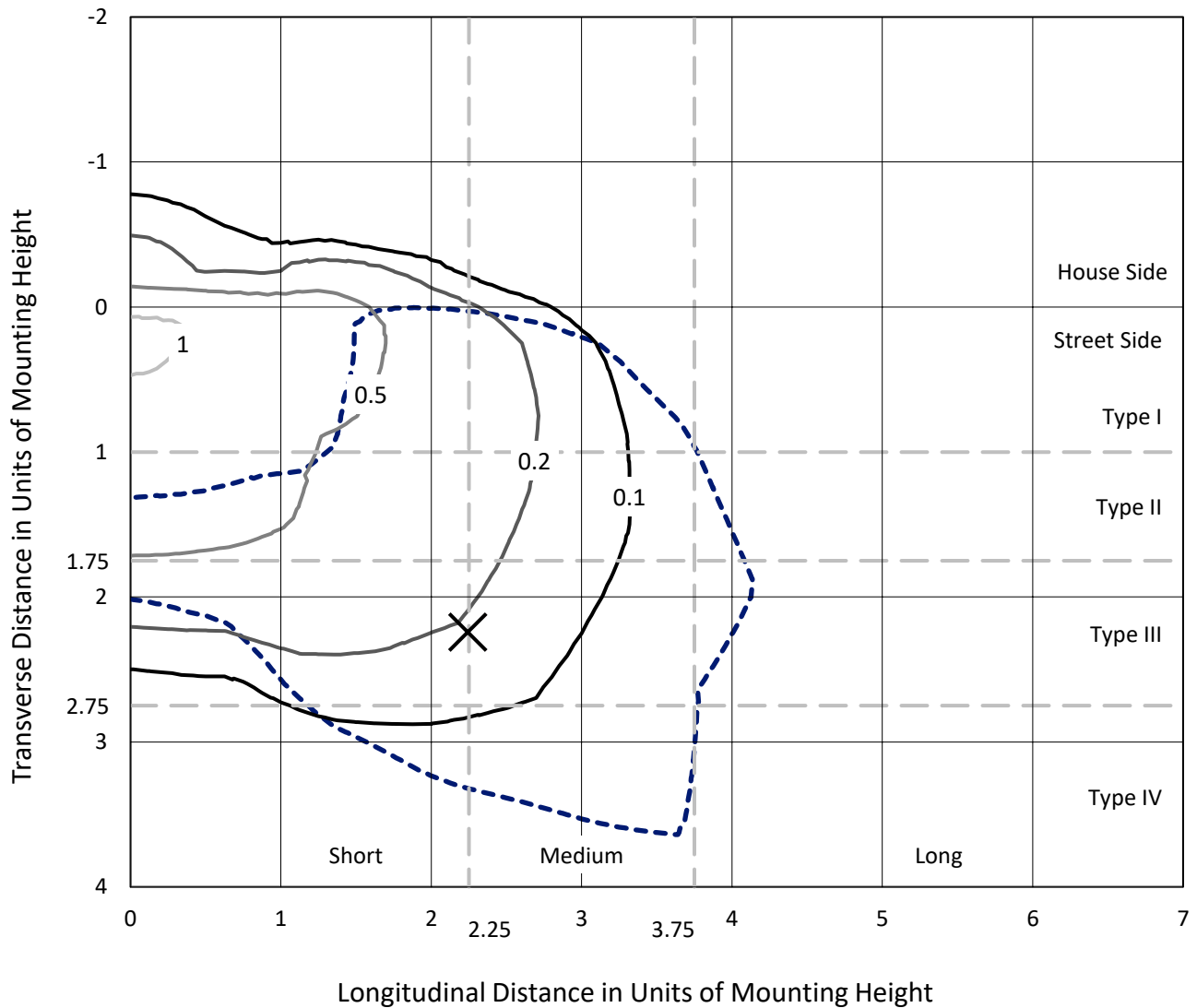
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

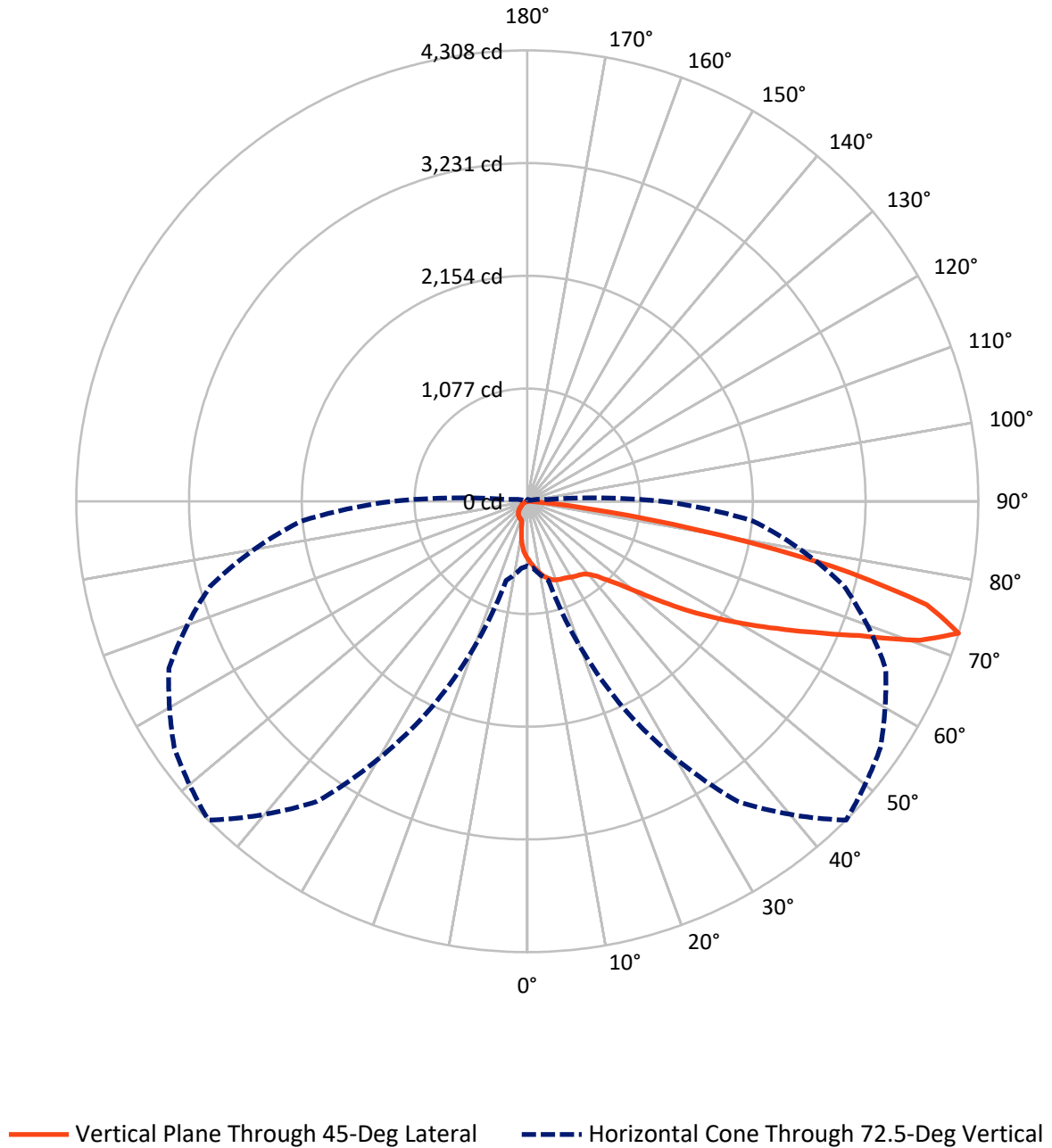
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 526.1 | 0.0 | 526.1 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 4480.9 | 0.0 | 4480.9 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 5007.0 | 0.0 | 5007.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 51.7 | 1.0 |
| 10°-20° | 151.0 | 3.0 |
| 20°-30° | 248.0 | 5.0 |
| 30°-40° | 351.8 | 7.0 |
| 40°-50° | 581.5 | 11.6 |
| 50°-60° | 1044.5 | 20.9 |
| 60°-70° | 1450.4 | 29.0 |
| 70°-80° | 1052.0 | 21.0 |
| 80°-90° | 76.1 | 1.5 |
| 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° | 5007.0 | 100.0 |
| 0°-180° | 5007.0 | 100.0 |

Coefficient of Utilization



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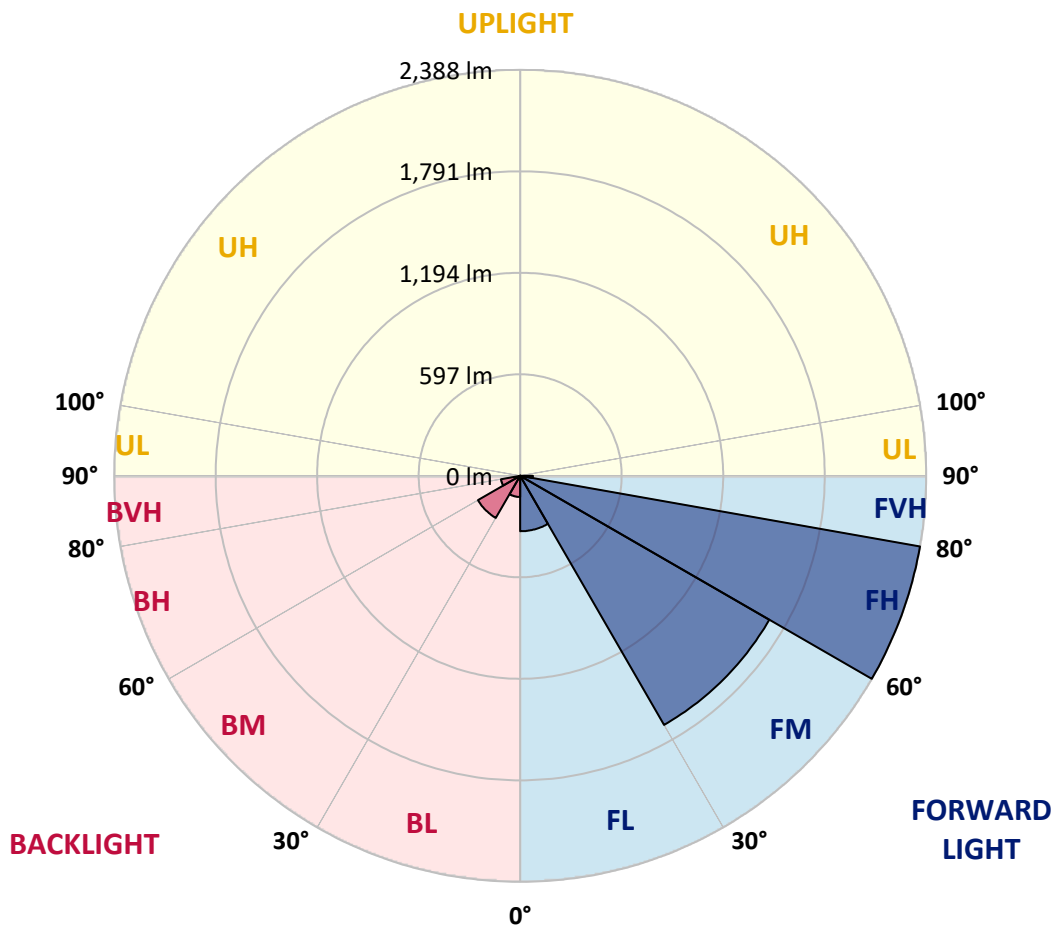
CATALOG NUMBER: GALN-SB2A-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 326.2 | 6.5 | | | |
| FM (30°-60°) | 1691.6 | 33.8 | | | |
| FH (60°-80°) | 2387.7 | 47.7 | | | G2/5000 |
| FVH (80°-90°) | 75.4 | 1.5 | | | G1/100 |
| BL (0°-30°) | 124.6 | 2.5 | B1/500 | | |
| BM (30°-60°) | 286.1 | 5.7 | B1/1000 | | |
| BH (60°-80°) | 114.7 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.6 | 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 IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 |
| 2.5° | 599.1 | 600.1 | 599.4 | 595.3 | 588.5 | 584.8 | 582.7 | 575.9 | 571.4 | 563.6 |
| 5° | 654.1 | 658.2 | 655.8 | 647.6 | 634.7 | 625.4 | 622.7 | 608.7 | 596.0 | 581.3 |
| 7.5° | 712.6 | 714.6 | 710.2 | 699.6 | 682.2 | 666.4 | 664.0 | 644.6 | 624.4 | 601.8 |
| 10° | 763.2 | 765.5 | 758.7 | 743.3 | 723.5 | 704.0 | 700.6 | 679.1 | 655.2 | 627.5 |
| 12.5° | 805.5 | 807.9 | 799.0 | 780.6 | 758.7 | 738.5 | 735.1 | 712.6 | 686.3 | 655.5 |
| 15° | 837.7 | 842.1 | 830.1 | 810.3 | 786.7 | 766.6 | 764.9 | 742.6 | 717.0 | 682.8 |
| 17.5° | 856.5 | 860.9 | 849.6 | 825.7 | 805.5 | 788.4 | 786.4 | 767.9 | 744.0 | 711.2 |
| 20° | 859.5 | 863.6 | 851.7 | 830.8 | 814.1 | 800.4 | 799.4 | 786.1 | 768.6 | 737.2 |
| 22.5° | 850.3 | 855.4 | 844.5 | 827.7 | 816.1 | 808.9 | 807.6 | 800.1 | 790.2 | 763.5 |
| 25° | 840.7 | 844.8 | 836.6 | 821.9 | 815.8 | 815.1 | 816.1 | 814.8 | 812.7 | 790.2 |
| 27.5° | 840.1 | 844.5 | 835.3 | 821.3 | 817.8 | 825.0 | 826.0 | 832.5 | 834.2 | 814.4 |
| 30° | 845.9 | 848.9 | 840.1 | 825.4 | 823.6 | 840.1 | 840.4 | 852.0 | 854.7 | 834.9 |
| 32.5° | 858.5 | 861.9 | 853.0 | 831.5 | 829.1 | 852.0 | 853.0 | 868.4 | 872.9 | 856.8 |
| 35° | 888.2 | 892.3 | 882.1 | 848.6 | 840.1 | 863.3 | 866.4 | 884.5 | 893.4 | 880.0 |
| 37.5° | 962.4 | 950.4 | 936.4 | 883.1 | 865.0 | 881.1 | 886.2 | 907.4 | 923.1 | 907.7 |
| 40° | 1146.6 | 1109.0 | 1065.3 | 941.9 | 908.7 | 919.0 | 923.1 | 944.3 | 965.8 | 950.8 |
| 42.5° | 1423.1 | 1378.7 | 1308.3 | 1077.2 | 974.7 | 979.8 | 982.9 | 1001.4 | 1031.8 | 1019.8 |
| 45° | 1669.5 | 1653.4 | 1581.7 | 1308.3 | 1098.1 | 1072.8 | 1076.5 | 1086.1 | 1130.9 | 1126.4 |
| 47.5° | 1858.8 | 1849.6 | 1794.2 | 1573.5 | 1306.6 | 1186.6 | 1197.2 | 1201.6 | 1266.2 | 1281.9 |
| 50° | 2004.4 | 2001.0 | 1951.5 | 1809.3 | 1578.9 | 1354.4 | 1358.2 | 1348.6 | 1445.3 | 1484.3 |
| 52.5° | 2141.8 | 2153.4 | 2116.9 | 2028.4 | 1869.8 | 1574.2 | 1573.5 | 1528.4 | 1658.9 | 1717.7 |
| 55° | 2265.9 | 2270.0 | 2273.7 | 2251.9 | 2162.3 | 1824.3 | 1817.8 | 1744.0 | 1906.7 | 1967.5 |
| 57.5° | 2382.4 | 2384.1 | 2417.6 | 2462.4 | 2466.8 | 2092.9 | 2081.0 | 1992.5 | 2177.4 | 2220.8 |
| 60° | 2460.7 | 2468.5 | 2539.3 | 2663.7 | 2718.0 | 2370.1 | 2363.6 | 2273.4 | 2452.8 | 2473.0 |
| 62.5° | 2347.9 | 2395.7 | 2574.1 | 2820.9 | 2955.2 | 2677.4 | 2674.3 | 2589.5 | 2742.6 | 2726.2 |
| 65° | 1900.5 | 1981.5 | 2295.3 | 2927.2 | 3188.0 | 3020.5 | 3024.9 | 2934.7 | 3040.3 | 2987.0 |
| 67.5° | 1329.5 | 1414.9 | 1786.0 | 2935.7 | 3448.0 | 3423.4 | 3449.1 | 3307.6 | 3356.4 | 3236.8 |
| 70° | 919.3 | 963.4 | 1205.1 | 2751.9 | 3650.7 | 3978.4 | 3977.8 | 3765.5 | 3670.9 | 3350.6 |
| 72.5° | 618.2 | 641.1 | 782.6 | 2183.2 | 3501.7 | 4308.2 | 4288.4 | 4115.5 | 3776.8 | 3133.6 |
| 75° | 260.8 | 277.5 | 362.3 | 1226.9 | 2770.3 | 3941.5 | 3887.9 | 3637.0 | 3355.8 | 2467.5 |
| 77.5° | 82.7 | 89.9 | 142.9 | 439.2 | 1526.0 | 2962.7 | 2906.0 | 2271.3 | 2249.1 | 1237.9 |
| 80° | 39.3 | 45.8 | 80.3 | 176.3 | 600.5 | 1611.4 | 1603.5 | 1030.4 | 967.5 | 334.2 |
| 82.5° | 17.1 | 20.2 | 44.4 | 94.3 | 268.6 | 574.8 | 586.5 | 350.6 | 290.2 | 126.8 |
| 85° | 5.5 | 7.2 | 20.5 | 43.4 | 113.5 | 142.9 | 141.1 | 83.4 | 116.9 | 69.0 |
| 87.5° | 0.0 | 0.0 | 6.8 | 9.9 | 11.6 | 8.2 | 9.2 | 7.2 | 32.5 | 19.1 |
| 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° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 548.5 | 0° | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 | 548.5 |
| 555.4 | 2.5° | 551.3 | 545.8 | 536.2 | 527.3 | 519.5 | 511.6 | 506.8 | 500.0 | 499.3 | 499.3 |
| 564.2 | 5° | 555.0 | 546.1 | 529.0 | 510.9 | 490.1 | 470.3 | 450.4 | 431.3 | 425.2 | 420.7 |
| 578.6 | 7.5° | 566.0 | 551.9 | 524.9 | 490.4 | 450.8 | 407.4 | 377.0 | 344.2 | 331.5 | 324.7 |
| 597.7 | 10° | 581.7 | 562.5 | 521.5 | 461.0 | 396.8 | 337.7 | 294.3 | 258.7 | 245.0 | 239.2 |
| 618.6 | 12.5° | 599.1 | 575.5 | 515.4 | 424.5 | 337.7 | 266.9 | 224.5 | 208.1 | 206.1 | 206.1 |
| 643.5 | 15° | 620.0 | 591.2 | 504.8 | 381.4 | 275.8 | 211.2 | 196.2 | 196.9 | 198.9 | 200.3 |
| 667.8 | 17.5° | 641.5 | 608.0 | 488.0 | 333.2 | 221.1 | 190.0 | 190.4 | 191.4 | 193.1 | 194.5 |
| 694.1 | 20° | 664.7 | 624.7 | 465.8 | 282.0 | 189.7 | 183.9 | 184.9 | 185.9 | 187.3 | 188.0 |
| 718.7 | 22.5° | 689.7 | 640.5 | 439.5 | 231.7 | 179.1 | 178.7 | 179.1 | 180.1 | 181.8 | 181.8 |
| 747.4 | 25° | 716.3 | 657.9 | 409.4 | 195.1 | 173.6 | 173.6 | 174.3 | 175.0 | 176.3 | 176.3 |
| 775.1 | 27.5° | 743.7 | 674.0 | 377.6 | 176.0 | 168.8 | 168.5 | 168.5 | 169.5 | 170.2 | 170.5 |
| 802.5 | 30° | 773.7 | 692.8 | 345.9 | 171.9 | 165.1 | 163.4 | 162.3 | 163.0 | 163.7 | 164.0 |
| 831.2 | 32.5° | 804.5 | 710.9 | 317.5 | 173.6 | 161.3 | 158.2 | 154.8 | 154.1 | 154.1 | 155.5 |
| 860.9 | 35° | 838.7 | 730.7 | 295.6 | 179.4 | 159.3 | 150.7 | 145.2 | 142.2 | 142.5 | 144.6 |
| 896.4 | 37.5° | 879.7 | 754.6 | 279.6 | 184.6 | 157.9 | 142.2 | 133.3 | 129.5 | 127.1 | 129.5 |
| 945.3 | 40° | 933.4 | 789.8 | 267.9 | 188.7 | 156.2 | 132.3 | 120.3 | 114.1 | 109.7 | 111.1 |
| 1021.2 | 42.5° | 1012.3 | 845.2 | 263.5 | 189.0 | 152.4 | 120.6 | 107.0 | 98.8 | 92.3 | 92.6 |
| 1135.3 | 45° | 1123.0 | 932.7 | 286.4 | 184.6 | 144.2 | 108.0 | 93.0 | 82.0 | 77.9 | 76.9 |
| 1305.9 | 47.5° | 1274.8 | 1060.1 | 339.4 | 175.3 | 132.3 | 95.7 | 79.3 | 70.1 | 67.0 | 65.3 |
| 1529.7 | 50° | 1478.1 | 1223.8 | 398.2 | 165.1 | 120.3 | 84.1 | 68.0 | 62.2 | 60.2 | 58.4 |
| 1795.3 | 52.5° | 1713.9 | 1389.9 | 446.3 | 154.8 | 108.3 | 73.8 | 60.8 | 57.4 | 55.7 | 54.3 |
| 2051.6 | 55° | 1930.3 | 1504.4 | 443.6 | 143.9 | 96.7 | 65.6 | 55.7 | 53.7 | 51.6 | 50.2 |
| 2272.4 | 57.5° | 2064.9 | 1520.5 | 365.7 | 131.9 | 83.4 | 59.1 | 50.9 | 49.6 | 47.2 | 45.5 |
| 2463.4 | 60° | 2126.8 | 1428.9 | 256.3 | 116.2 | 70.1 | 53.0 | 45.8 | 45.1 | 42.0 | 39.6 |
| 2644.2 | 62.5° | 2138.1 | 1258.7 | 170.9 | 96.7 | 58.4 | 47.2 | 40.7 | 39.6 | 35.5 | 31.4 |
| 2791.2 | 65° | 2092.3 | 1015.4 | 118.2 | 75.5 | 49.9 | 41.0 | 34.9 | 32.8 | 28.4 | 24.3 |
| 2826.0 | 67.5° | 1947.4 | 712.9 | 82.4 | 54.3 | 42.4 | 32.5 | 27.7 | 27.0 | 23.6 | 20.2 |
| 2648.3 | 70° | 1681.8 | 406.4 | 55.0 | 40.7 | 33.5 | 22.2 | 21.9 | 22.6 | 19.1 | 16.4 |
| 2163.7 | 72.5° | 1289.5 | 185.9 | 34.2 | 29.7 | 22.9 | 15.0 | 17.4 | 17.8 | 14.7 | 12.3 |
| 1350.0 | 75° | 759.1 | 79.6 | 21.5 | 19.1 | 11.6 | 9.9 | 12.6 | 13.0 | 9.9 | 7.9 |
| 493.5 | 77.5° | 258.4 | 30.1 | 13.7 | 11.3 | 5.8 | 5.5 | 8.2 | 8.2 | 5.5 | 3.1 |
| 99.1 | 80° | 58.8 | 11.3 | 6.8 | 4.4 | 2.7 | 2.4 | 2.7 | 2.4 | 1.4 | 0.3 |
| 30.4 | 82.5° | 16.7 | 4.4 | 2.7 | 1.7 | 1.0 | 1.0 | 0.3 | 0.0 | 0.0 | 0.0 |
| 10.6 | 85° | 4.8 | 2.1 | 0.7 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3.8 | 87.5° | 2.1 | 0.3 | 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> |
| 548.5 |
| 501.0 |
| 422.8 |
| 325.7 |
| 239.2 |
| 206.1 |
| 200.3 |
| 194.5 |
| 188.3 |
| 182.5 |
| 176.7 |
| 170.9 |
| 164.7 |
| 156.5 |
| 145.6 |
| 128.8 |
| 110.4 |
| 91.3 |
| 75.5 |
| 64.3 |
| 58.1 |
| 54.0 |
| 49.6 |
| 45.1 |
| 39.0 |
| 29.4 |
| 22.9 |
| 19.1 |
| 15.0 |
| 10.9 |
| 6.8 |
| 2.4 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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