

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: P938868

Luminaire Tested: **GALN-SB1A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P938868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2462 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

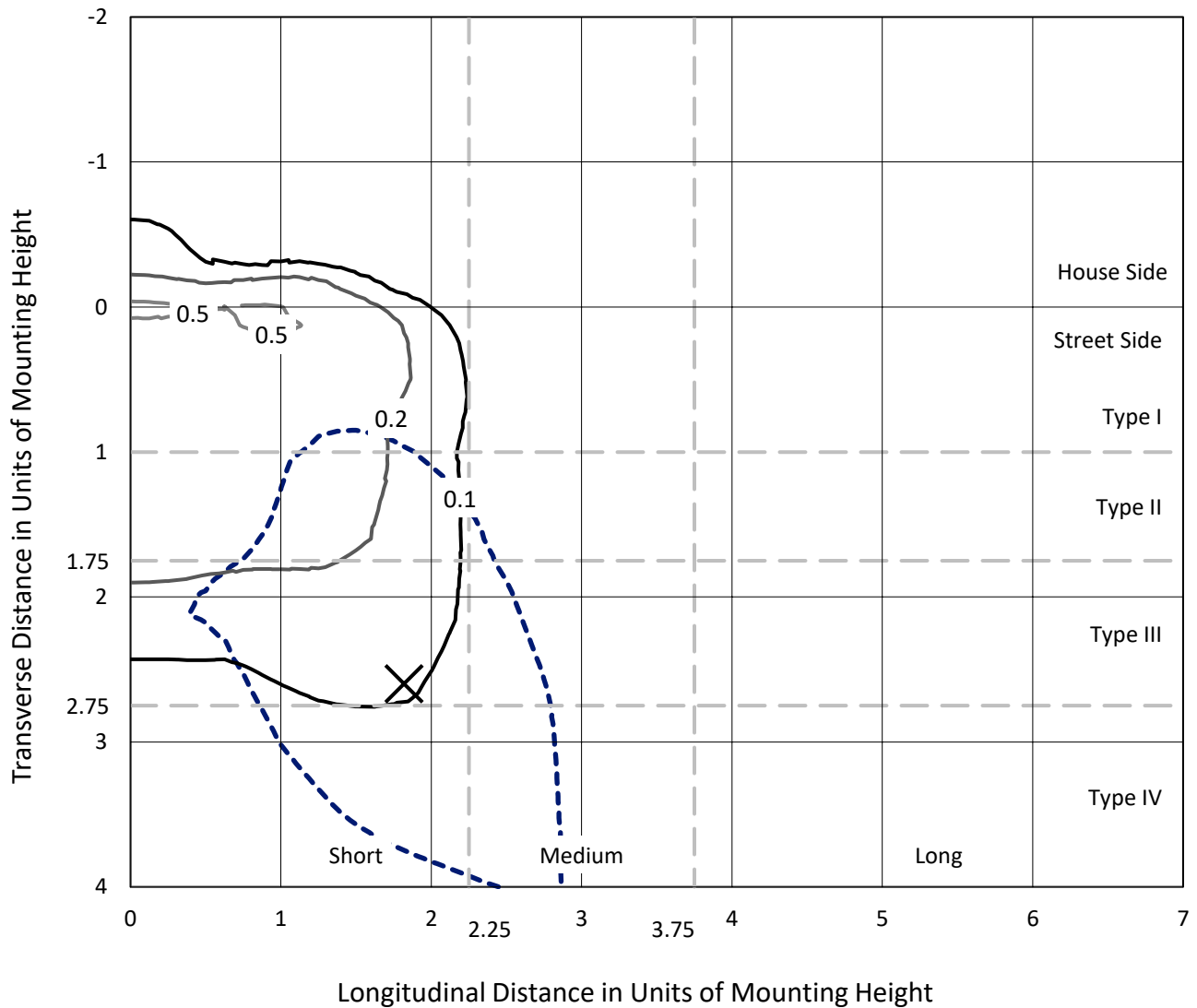
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

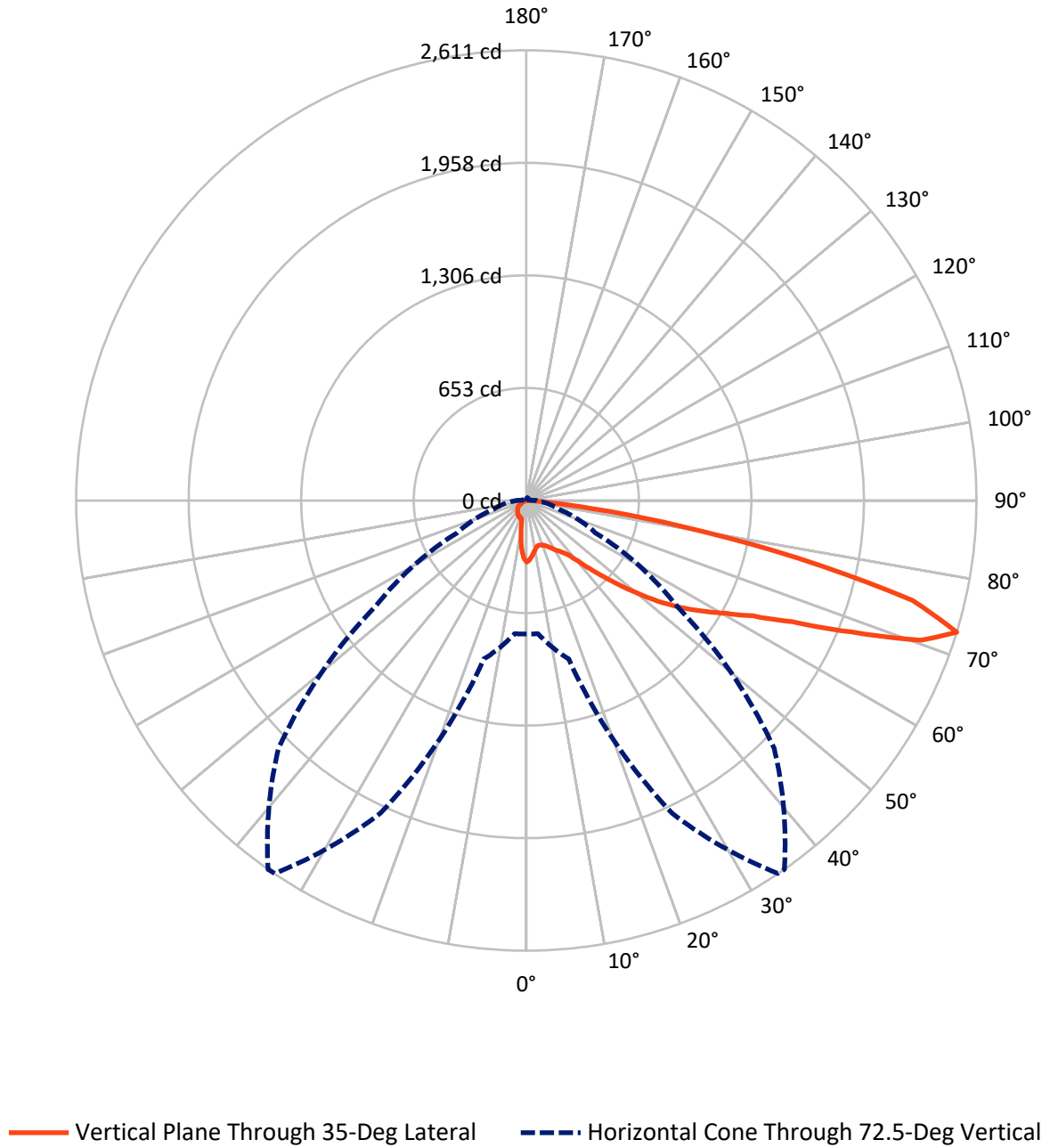
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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 | 277.1 | 0.0 | 277.1 |
| | % Fixture | 11.3 | 0.0 | 11.3 |
| Street Side | Lumens | 2184.9 | 0.0 | 2184.9 |
| | % Fixture | 88.7 | 0.0 | 88.7 |
| Total | Lumens | 2462.0 | 0.0 | 2462.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.3 | 1.2 |
| 10°-20° | 68.6 | 2.8 |
| 20°-30° | 111.4 | 4.5 |
| 30°-40° | 185.9 | 7.6 |
| 40°-50° | 351.8 | 14.3 |
| 50°-60° | 559.0 | 22.7 |
| 60°-70° | 691.5 | 28.1 |
| 70°-80° | 429.8 | 17.5 |
| 80°-90° | 34.7 | 1.4 |
| 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° | 2462.0 | 100.0 |
| 0°-180° | 2462.0 | 100.0 |

Coefficient of Utilization



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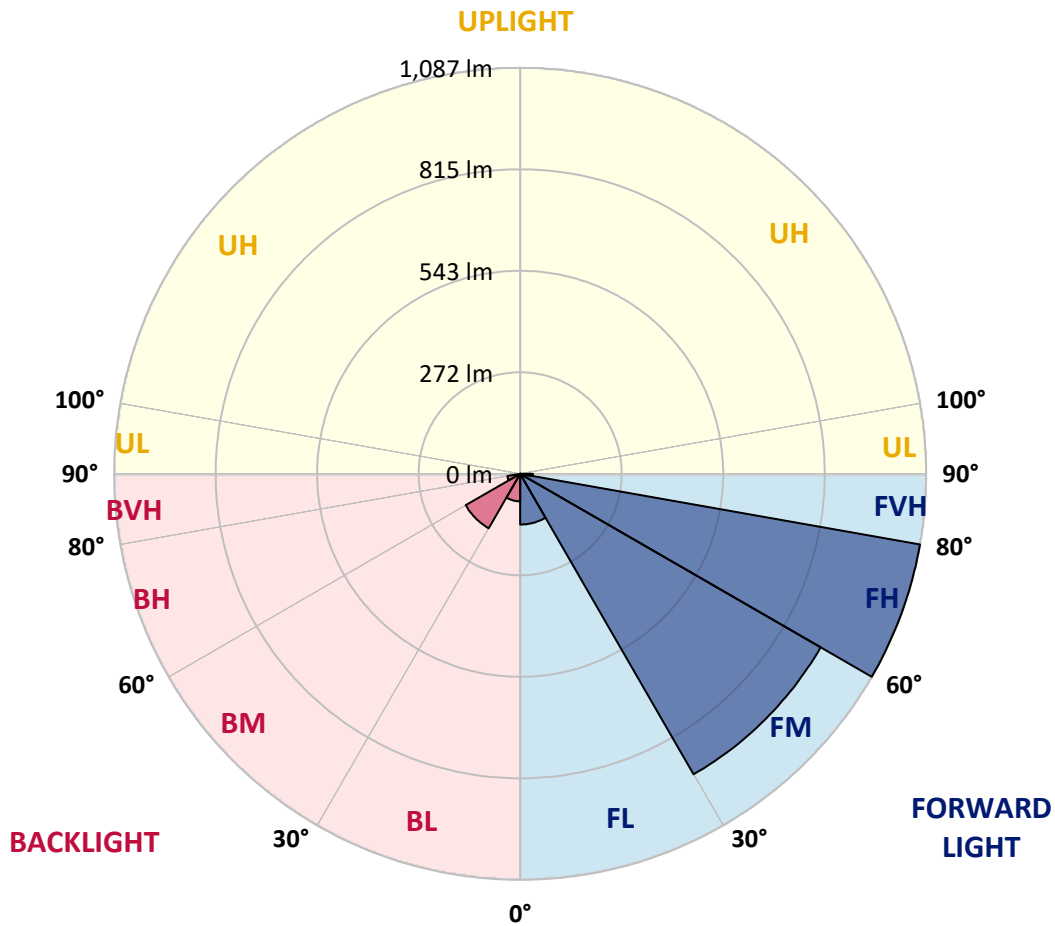
CATALOG NUMBER: GALN-SB1A-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 135.7 | 5.5 | | | |
| FM (30°-60°) | 928.4 | 37.7 | | | |
| FH (60°-80°) | 1086.5 | 44.1 | | | G1/1800 |
| FVH (80°-90°) | 34.3 | 1.4 | | | G1/100 |
| BL (0°-30°) | 73.6 | 3.0 | B0/110 | | |
| BM (30°-60°) | 168.2 | 6.8 | B0/220 | | |
| BH (60°-80°) | 34.8 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 |
| 2.5° | 341.0 | 343.8 | 344.4 | 345.3 | 345.3 | 346.4 | 348.2 | 350.7 | 354.8 | 357.0 |
| 5° | 314.3 | 316.4 | 319.1 | 321.3 | 325.4 | 326.0 | 333.0 | 339.9 | 349.4 | 356.6 |
| 7.5° | 287.4 | 289.9 | 293.5 | 298.7 | 304.2 | 305.8 | 316.4 | 328.0 | 343.1 | 356.6 |
| 10° | 268.4 | 268.6 | 271.9 | 277.1 | 285.7 | 287.7 | 300.7 | 317.1 | 336.1 | 354.5 |
| 12.5° | 257.8 | 259.1 | 260.5 | 264.5 | 272.8 | 274.0 | 287.9 | 307.2 | 329.0 | 353.2 |
| 15° | 257.8 | 258.7 | 259.6 | 261.6 | 268.3 | 269.3 | 281.6 | 300.9 | 325.4 | 353.8 |
| 17.5° | 260.5 | 261.9 | 261.2 | 263.6 | 270.6 | 271.3 | 282.1 | 299.1 | 325.3 | 357.2 |
| 20° | 267.0 | 268.1 | 266.6 | 268.1 | 275.1 | 276.5 | 287.7 | 302.5 | 328.3 | 363.1 |
| 22.5° | 277.3 | 277.8 | 274.4 | 275.5 | 282.7 | 284.5 | 297.5 | 312.3 | 335.7 | 372.7 |
| 25° | 290.3 | 291.3 | 286.1 | 287.4 | 294.2 | 296.4 | 311.4 | 326.9 | 347.4 | 385.9 |
| 27.5° | 305.2 | 305.8 | 301.3 | 301.1 | 309.9 | 313.0 | 328.1 | 344.9 | 363.1 | 402.5 |
| 30° | 322.4 | 324.0 | 319.7 | 318.9 | 330.1 | 332.7 | 347.6 | 367.1 | 386.2 | 427.4 |
| 32.5° | 335.9 | 337.2 | 334.6 | 336.4 | 347.8 | 349.8 | 371.3 | 398.5 | 422.5 | 462.7 |
| 35° | 355.4 | 356.1 | 350.3 | 353.6 | 366.6 | 371.6 | 403.5 | 442.5 | 468.1 | 507.1 |
| 37.5° | 425.9 | 425.9 | 401.4 | 385.3 | 397.8 | 402.3 | 447.7 | 497.9 | 524.4 | 566.6 |
| 40° | 523.5 | 521.9 | 486.0 | 453.2 | 451.5 | 460.4 | 510.7 | 567.7 | 597.1 | 638.1 |
| 42.5° | 627.6 | 625.1 | 576.2 | 543.7 | 538.3 | 541.4 | 583.4 | 653.8 | 683.7 | 725.2 |
| 45° | 720.0 | 719.2 | 674.5 | 630.9 | 621.1 | 630.9 | 674.1 | 754.4 | 775.9 | 819.5 |
| 47.5° | 797.4 | 797.4 | 764.7 | 736.2 | 731.2 | 736.9 | 797.0 | 866.1 | 864.1 | 920.0 |
| 50° | 886.5 | 885.8 | 854.7 | 842.5 | 847.7 | 855.8 | 938.4 | 983.7 | 955.4 | 1018.7 |
| 52.5° | 948.9 | 953.2 | 942.6 | 940.6 | 967.3 | 981.4 | 1082.0 | 1098.8 | 1037.1 | 1112.3 |
| 55° | 998.3 | 1003.4 | 1015.6 | 1029.5 | 1080.9 | 1099.3 | 1221.1 | 1207.9 | 1105.5 | 1193.5 |
| 57.5° | 1068.3 | 1061.1 | 1080.0 | 1107.5 | 1190.6 | 1212.8 | 1355.9 | 1310.9 | 1160.5 | 1259.4 |
| 60° | 1153.3 | 1154.4 | 1157.6 | 1192.2 | 1300.1 | 1328.6 | 1488.6 | 1408.4 | 1195.9 | 1299.8 |
| 62.5° | 1255.4 | 1257.0 | 1263.7 | 1316.9 | 1447.1 | 1474.0 | 1630.1 | 1488.1 | 1212.1 | 1288.4 |
| 65° | 1248.4 | 1255.2 | 1329.7 | 1511.7 | 1670.7 | 1697.2 | 1795.1 | 1544.0 | 1187.6 | 1184.5 |
| 67.5° | 1137.2 | 1148.4 | 1273.1 | 1744.4 | 2007.6 | 2037.2 | 1994.7 | 1555.0 | 1081.7 | 921.1 |
| 70° | 991.5 | 995.4 | 1145.3 | 1953.7 | 2397.8 | 2427.8 | 2173.2 | 1434.0 | 820.8 | 513.8 |
| 72.5° | 774.3 | 775.2 | 951.1 | 2002.2 | 2609.6 | 2611.3 | 2033.1 | 1064.5 | 441.4 | 197.4 |
| 75° | 553.1 | 547.7 | 637.0 | 1623.8 | 2295.9 | 2314.3 | 1524.2 | 499.3 | 168.7 | 93.3 |
| 77.5° | 296.6 | 302.5 | 360.4 | 963.0 | 1586.1 | 1617.4 | 831.6 | 144.0 | 85.9 | 63.5 |
| 80° | 91.6 | 96.7 | 147.7 | 440.9 | 898.4 | 917.3 | 308.3 | 64.0 | 59.9 | 45.3 |
| 82.5° | 28.9 | 29.9 | 68.9 | 185.3 | 372.9 | 381.5 | 89.3 | 36.3 | 41.0 | 29.9 |
| 85° | 8.3 | 8.5 | 30.7 | 69.1 | 92.2 | 94.0 | 25.1 | 14.1 | 23.5 | 18.6 |
| 87.5° | 0.9 | 2.9 | 11.5 | 11.5 | 8.1 | 7.9 | 2.7 | 3.1 | 6.7 | 2.3 |
| 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° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 356.8 | 0° | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 | 356.8 |
| 358.4 | 2.5° | 357.5 | 357.7 | 355.4 | 351.4 | 347.1 | 343.5 | 339.0 | 335.4 | 332.8 | 332.1 |
| 361.7 | 5° | 360.1 | 358.8 | 352.1 | 340.0 | 325.6 | 313.2 | 299.3 | 288.3 | 281.1 | 278.0 |
| 365.1 | 7.5° | 363.9 | 360.3 | 345.6 | 321.8 | 294.2 | 269.7 | 244.8 | 225.5 | 213.2 | 207.1 |
| 368.4 | 10° | 367.1 | 359.9 | 334.8 | 295.5 | 253.3 | 216.1 | 182.6 | 159.3 | 146.3 | 140.2 |
| 372.2 | 12.5° | 370.2 | 359.7 | 320.7 | 264.3 | 207.1 | 161.6 | 130.4 | 118.9 | 115.3 | 114.0 |
| 378.3 | 15° | 375.9 | 360.3 | 303.1 | 228.6 | 161.1 | 122.1 | 110.8 | 110.6 | 111.3 | 110.9 |
| 387.7 | 17.5° | 383.9 | 360.8 | 283.0 | 190.7 | 124.3 | 107.7 | 107.2 | 108.8 | 109.9 | 109.3 |
| 399.4 | 20° | 394.2 | 363.0 | 261.8 | 153.2 | 106.8 | 104.1 | 105.4 | 106.8 | 107.7 | 106.8 |
| 415.1 | 22.5° | 408.6 | 366.7 | 238.5 | 123.0 | 101.2 | 101.9 | 103.0 | 104.6 | 105.5 | 104.3 |
| 435.1 | 25° | 426.3 | 372.7 | 215.6 | 107.0 | 98.5 | 99.4 | 101.0 | 102.8 | 103.9 | 102.6 |
| 460.4 | 27.5° | 449.2 | 382.3 | 194.5 | 103.4 | 95.8 | 96.3 | 98.7 | 101.4 | 102.8 | 101.2 |
| 496.3 | 30° | 482.4 | 398.0 | 176.2 | 105.0 | 94.2 | 92.9 | 96.2 | 99.9 | 101.6 | 100.1 |
| 545.2 | 32.5° | 526.4 | 420.1 | 165.1 | 107.5 | 93.4 | 88.9 | 92.0 | 96.9 | 99.6 | 98.7 |
| 609.0 | 35° | 584.1 | 453.9 | 160.7 | 110.4 | 92.9 | 84.8 | 87.0 | 92.2 | 96.9 | 97.8 |
| 689.5 | 37.5° | 654.1 | 500.8 | 162.0 | 111.7 | 91.3 | 81.4 | 82.4 | 87.0 | 93.1 | 96.0 |
| 780.0 | 40° | 733.7 | 555.4 | 169.2 | 110.4 | 89.5 | 78.5 | 78.7 | 82.1 | 87.5 | 91.8 |
| 877.5 | 42.5° | 815.8 | 619.3 | 182.6 | 105.7 | 87.9 | 75.9 | 75.4 | 77.8 | 81.4 | 84.4 |
| 974.7 | 45° | 893.9 | 685.0 | 195.7 | 99.2 | 85.9 | 73.4 | 72.2 | 73.1 | 73.8 | 75.0 |
| 1069.4 | 47.5° | 962.1 | 731.2 | 191.9 | 93.3 | 83.2 | 70.5 | 68.4 | 68.0 | 65.8 | 65.7 |
| 1154.0 | 50° | 1009.1 | 741.3 | 170.5 | 87.3 | 79.2 | 67.3 | 63.9 | 61.7 | 57.9 | 56.1 |
| 1217.3 | 52.5° | 1024.1 | 701.4 | 139.3 | 81.4 | 72.7 | 63.0 | 58.1 | 54.7 | 50.0 | 48.3 |
| 1253.8 | 55° | 1004.3 | 623.3 | 111.3 | 74.1 | 63.7 | 57.2 | 51.8 | 47.3 | 43.5 | 41.5 |
| 1257.7 | 57.5° | 955.7 | 523.9 | 88.0 | 65.7 | 54.1 | 50.7 | 45.3 | 40.8 | 37.5 | 35.5 |
| 1213.7 | 60° | 875.3 | 416.0 | 69.6 | 55.6 | 46.2 | 43.7 | 38.1 | 35.2 | 32.3 | 29.9 |
| 1100.1 | 62.5° | 753.2 | 296.9 | 54.7 | 44.0 | 38.6 | 35.7 | 32.5 | 30.3 | 26.9 | 23.6 |
| 895.7 | 65° | 587.7 | 181.7 | 42.2 | 32.3 | 31.0 | 29.6 | 27.6 | 25.6 | 21.5 | 18.2 |
| 584.3 | 67.5° | 370.7 | 86.0 | 30.1 | 24.4 | 24.5 | 23.8 | 22.9 | 21.3 | 18.2 | 15.3 |
| 261.8 | 70° | 163.3 | 41.7 | 19.8 | 18.6 | 18.2 | 18.2 | 18.9 | 18.4 | 15.5 | 12.8 |
| 90.9 | 72.5° | 55.6 | 22.4 | 14.8 | 14.1 | 13.2 | 13.0 | 15.9 | 15.3 | 12.4 | 9.9 |
| 45.3 | 75° | 29.0 | 15.0 | 10.8 | 10.1 | 7.9 | 9.6 | 12.6 | 11.9 | 8.8 | 6.5 |
| 29.9 | 77.5° | 18.9 | 10.6 | 7.4 | 6.5 | 4.5 | 6.3 | 9.4 | 8.3 | 5.2 | 3.2 |
| 19.7 | 80° | 11.9 | 7.0 | 4.3 | 3.1 | 2.2 | 3.4 | 5.1 | 3.6 | 2.0 | 0.7 |
| 11.5 | 82.5° | 6.3 | 3.6 | 1.6 | 1.1 | 0.9 | 1.1 | 1.3 | 0.9 | 0.4 | 0.0 |
| 6.0 | 85° | 2.5 | 1.3 | 0.5 | 0.4 | 0.2 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 |
| 1.1 | 87.5° | 0.9 | 0.2 | 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 |

(END O

| |
|-------------|
| <u>180°</u> |
| 356.8 |
| 333.4 |
| 279.1 |
| 208.0 |
| 140.3 |
| 113.7 |
| 110.8 |
| 109.1 |
| 106.6 |
| 104.1 |
| 102.5 |
| 101.2 |
| 99.9 |
| 98.7 |
| 97.8 |
| 96.7 |
| 93.3 |
| 85.7 |
| 75.8 |
| 65.5 |
| 56.3 |
| 48.2 |
| 41.5 |
| 35.2 |
| 29.4 |
| 23.1 |
| 17.7 |
| 15.0 |
| 12.3 |
| 9.4 |
| 6.0 |
| 2.9 |
| 0.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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