

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: P945102

Luminaire Tested: **GALN-SB1A-927-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945102
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-927-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2726 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

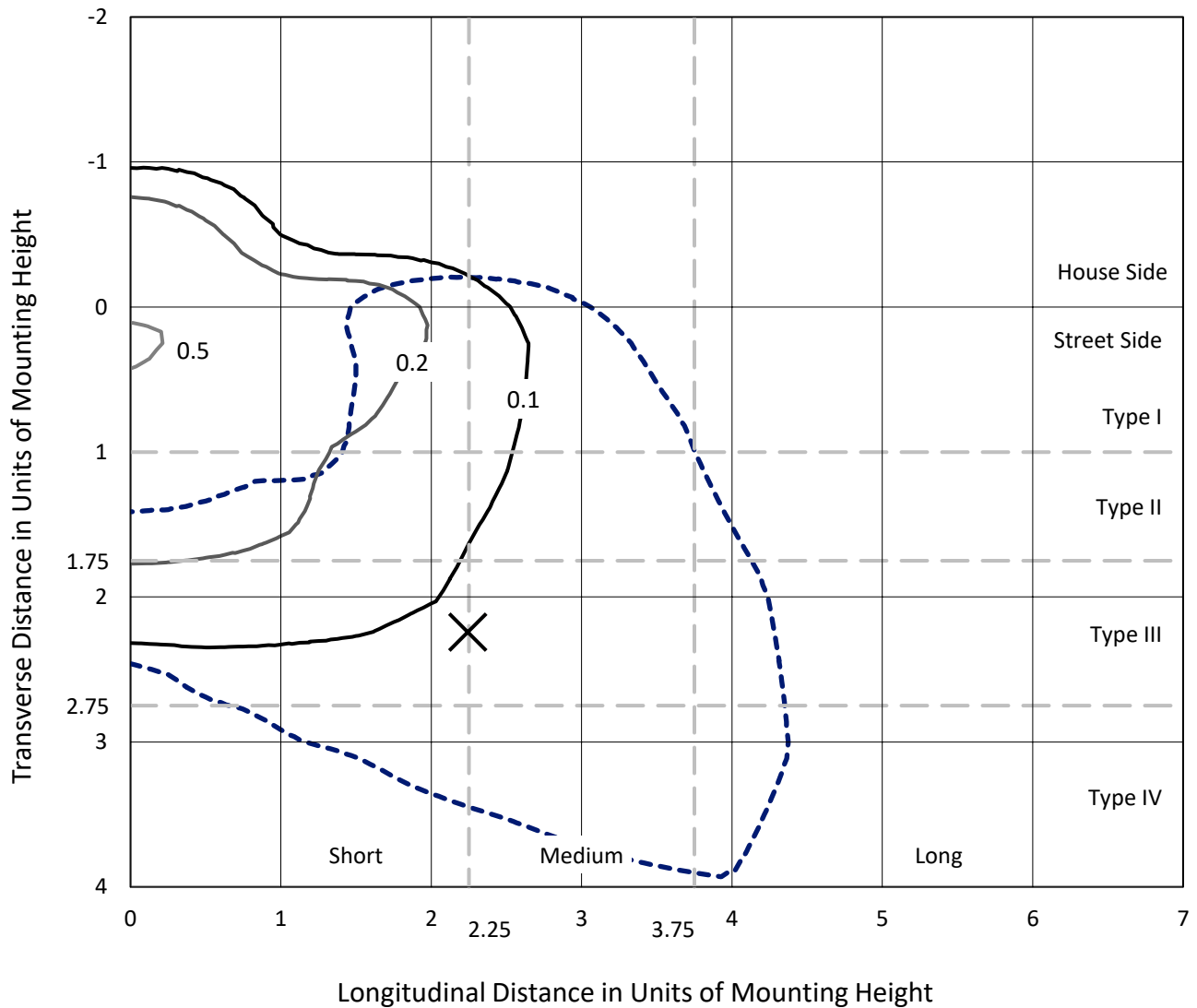
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945102
 CATALOG NUMBER: GALN-SB1A-927-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

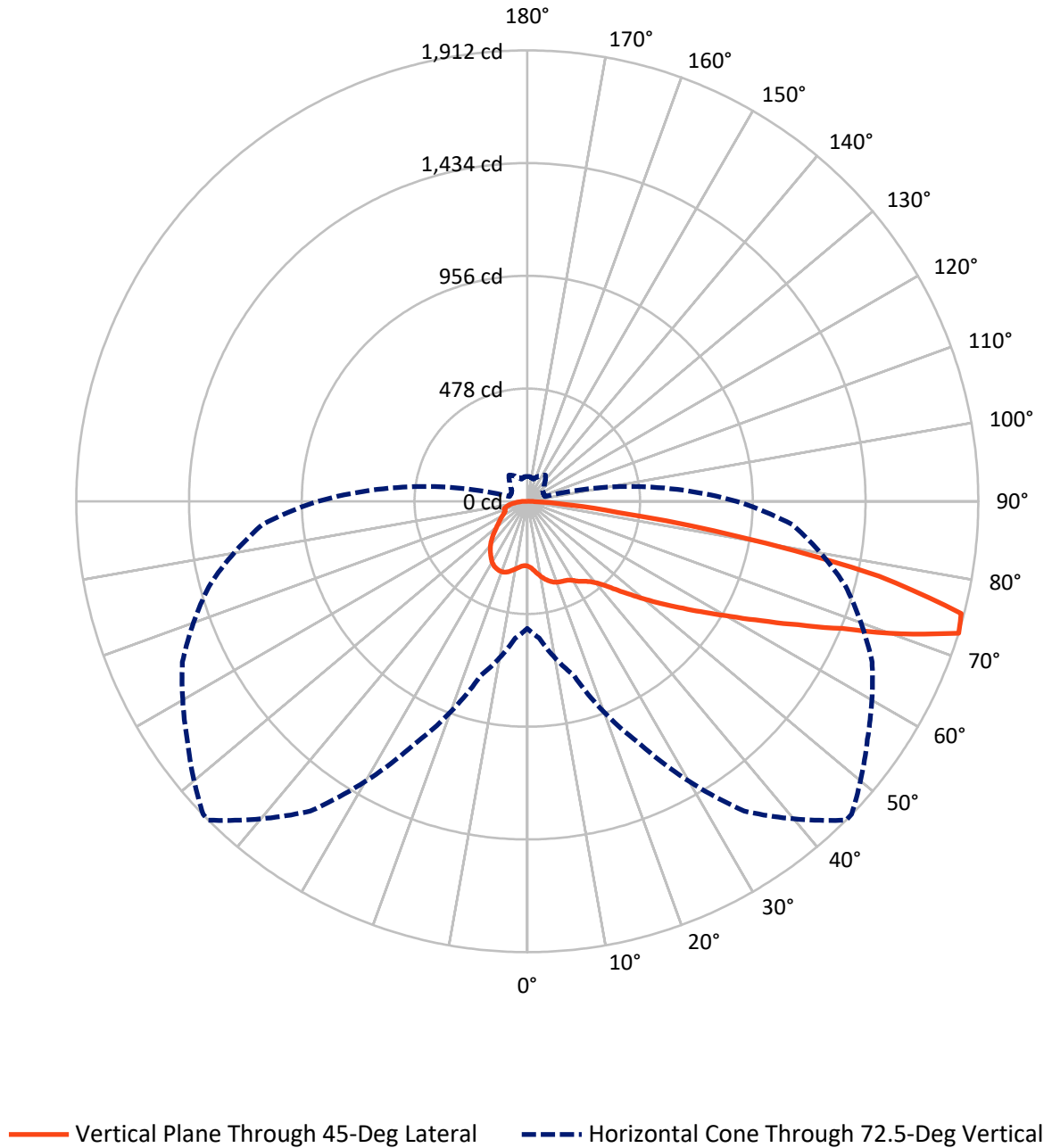
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P945102
CATALOG NUMBER: GALN-SB1A-927-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P945102
 CATALOG NUMBER: GALN-SB1A-927-U-T4W

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 616.3 | 0.0 | 616.3 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 2109.8 | 0.0 | 2109.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 2726.0 | 0.0 | 2726.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.0 | 1.0 |
| 10°-20° | 93.3 | 3.4 |
| 20°-30° | 162.3 | 6.0 |
| 30°-40° | 232.7 | 8.5 |
| 40°-50° | 327.7 | 12.0 |
| 50°-60° | 501.9 | 18.4 |
| 60°-70° | 727.1 | 26.7 |
| 70°-80° | 580.6 | 21.3 |
| 80°-90° | 72.3 | 2.7 |
| 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° | 2726.0 | 100.0 |
| 0°-180° | 2726.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P945102

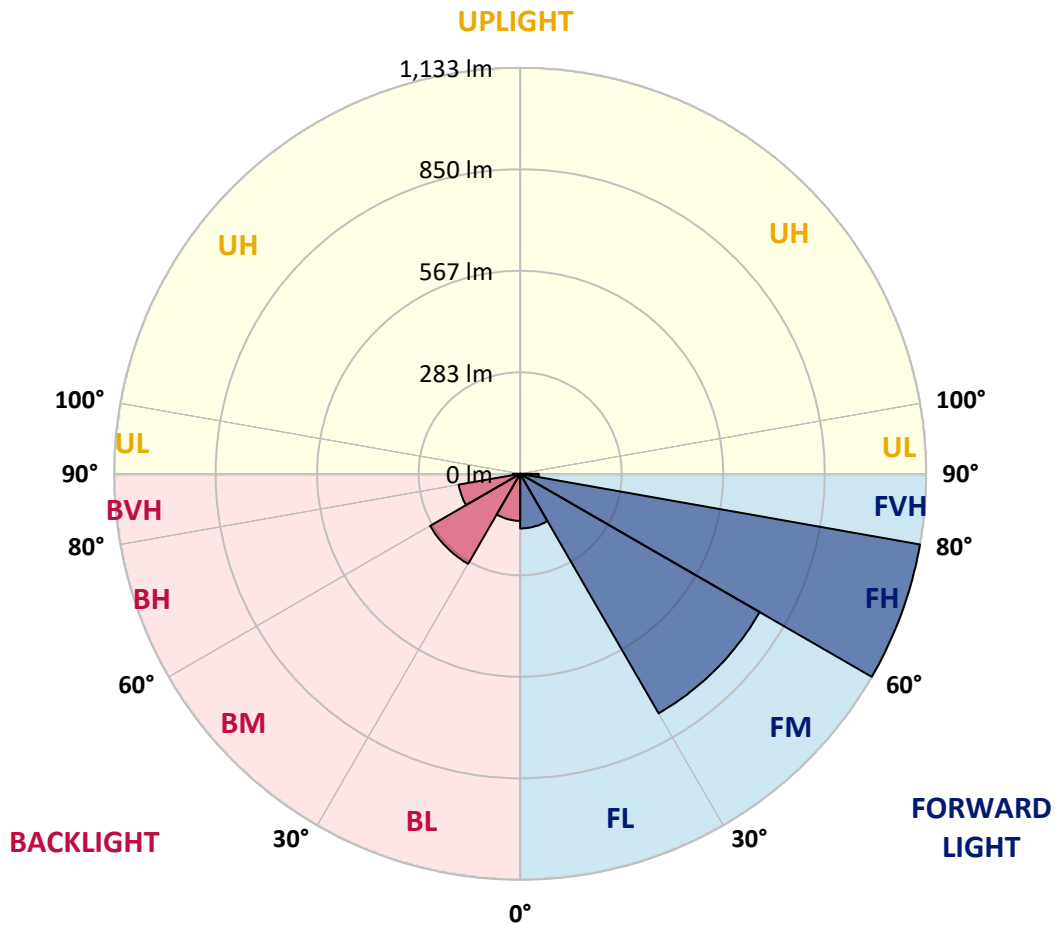
CATALOG NUMBER: GALN-SB1A-927-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 152.4 | 5.6 | | | |
| FM (30°-60°) | 772.1 | 28.3 | | | |
| FH (60°-80°) | 1133.3 | 41.6 | | | G1/1800 |
| FVH (80°-90°) | 51.9 | 1.9 | | | G1/100 |
| BL (0°-30°) | 131.2 | 4.8 | B1/500 | | |
| BM (30°-60°) | 290.2 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 174.4 | 6.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.4 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short



REPORT NUMBER: P945102
 CATALOG NUMBER: GALN-SB1A-927-U-T4W

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 |
| 2.5° | 285.8 | 287.6 | 285.9 | 284.3 | 283.6 | 281.7 | 281.6 | 280.5 | 279.7 | 277.7 |
| 5° | 305.7 | 308.2 | 305.3 | 302.1 | 299.3 | 294.7 | 294.1 | 290.8 | 287.1 | 282.8 |
| 7.5° | 328.3 | 330.4 | 327.1 | 322.4 | 317.4 | 309.8 | 309.6 | 303.6 | 297.7 | 290.4 |
| 10° | 348.0 | 350.8 | 346.4 | 339.9 | 333.6 | 325.0 | 324.0 | 317.1 | 309.6 | 300.1 |
| 12.5° | 365.3 | 367.3 | 363.0 | 355.1 | 347.8 | 339.2 | 337.9 | 330.3 | 322.0 | 311.2 |
| 15° | 379.1 | 381.7 | 376.0 | 367.5 | 359.7 | 351.3 | 350.1 | 343.2 | 334.9 | 323.5 |
| 17.5° | 388.2 | 390.3 | 384.4 | 374.9 | 367.5 | 360.4 | 359.6 | 353.8 | 346.5 | 335.0 |
| 20° | 391.6 | 393.9 | 387.7 | 378.1 | 371.2 | 365.8 | 365.3 | 361.2 | 356.1 | 345.7 |
| 22.5° | 395.1 | 397.2 | 389.2 | 379.1 | 373.1 | 369.6 | 369.5 | 366.8 | 364.8 | 356.1 |
| 25° | 409.0 | 409.6 | 398.8 | 384.3 | 375.7 | 372.7 | 372.5 | 372.4 | 373.2 | 366.5 |
| 27.5° | 421.0 | 420.9 | 411.7 | 398.1 | 384.7 | 378.4 | 378.3 | 379.7 | 382.4 | 376.8 |
| 30° | 438.7 | 437.1 | 426.2 | 412.0 | 399.8 | 390.0 | 389.2 | 387.9 | 390.0 | 385.6 |
| 32.5° | 476.2 | 471.2 | 453.5 | 428.2 | 412.3 | 404.8 | 403.7 | 395.6 | 396.5 | 393.8 |
| 35° | 529.9 | 523.3 | 499.7 | 459.0 | 427.8 | 417.2 | 416.6 | 406.4 | 404.7 | 402.2 |
| 37.5° | 593.8 | 585.6 | 558.2 | 503.5 | 454.5 | 431.5 | 430.7 | 421.5 | 414.4 | 411.9 |
| 40° | 658.0 | 647.7 | 625.0 | 557.8 | 493.9 | 455.5 | 452.8 | 438.9 | 430.8 | 426.5 |
| 42.5° | 720.3 | 711.7 | 692.3 | 618.6 | 542.4 | 490.5 | 484.5 | 460.7 | 454.6 | 450.6 |
| 45° | 775.5 | 767.7 | 753.5 | 683.7 | 599.3 | 538.2 | 532.3 | 493.4 | 491.6 | 491.6 |
| 47.5° | 820.3 | 818.5 | 803.5 | 750.0 | 666.3 | 592.5 | 582.3 | 538.9 | 544.0 | 551.7 |
| 50° | 869.9 | 865.2 | 849.1 | 815.4 | 745.2 | 654.7 | 646.4 | 594.8 | 613.6 | 634.9 |
| 52.5° | 915.6 | 918.2 | 900.2 | 883.4 | 834.2 | 724.0 | 709.4 | 660.7 | 701.4 | 736.5 |
| 55° | 962.6 | 962.7 | 957.7 | 955.4 | 927.5 | 800.7 | 784.6 | 740.0 | 804.6 | 848.3 |
| 57.5° | 1006.7 | 1006.9 | 1014.4 | 1034.7 | 1035.8 | 889.2 | 871.0 | 837.4 | 919.3 | 963.9 |
| 60° | 1046.0 | 1048.0 | 1068.4 | 1115.8 | 1131.0 | 990.6 | 973.3 | 952.4 | 1038.0 | 1082.8 |
| 62.5° | 1059.2 | 1066.5 | 1111.9 | 1179.3 | 1225.1 | 1114.9 | 1098.0 | 1085.5 | 1162.6 | 1204.3 |
| 65° | 1036.8 | 1053.6 | 1141.4 | 1231.7 | 1321.9 | 1262.7 | 1245.9 | 1232.3 | 1292.1 | 1331.3 |
| 67.5° | 981.8 | 1003.5 | 1139.6 | 1286.7 | 1439.3 | 1440.5 | 1424.8 | 1392.8 | 1431.0 | 1446.1 |
| 70° | 836.9 | 869.4 | 1039.3 | 1307.2 | 1574.2 | 1683.6 | 1668.5 | 1586.1 | 1569.6 | 1496.6 |
| 72.5° | 539.2 | 582.9 | 765.3 | 1138.2 | 1604.2 | 1912.4 | 1911.5 | 1760.6 | 1613.4 | 1398.4 |
| 75° | 196.7 | 223.4 | 355.6 | 714.4 | 1346.6 | 1900.7 | 1906.3 | 1730.7 | 1472.8 | 1080.2 |
| 77.5° | 71.7 | 78.4 | 116.0 | 274.6 | 828.2 | 1525.1 | 1536.7 | 1383.6 | 1048.3 | 542.1 |
| 80° | 37.6 | 41.4 | 59.5 | 106.6 | 354.8 | 905.7 | 923.9 | 822.3 | 492.7 | 163.3 |
| 82.5° | 20.8 | 22.5 | 33.3 | 57.9 | 159.8 | 387.3 | 398.2 | 324.8 | 173.3 | 69.2 |
| 85° | 11.2 | 11.9 | 15.7 | 31.6 | 78.1 | 134.3 | 137.3 | 97.1 | 69.1 | 40.6 |
| 87.5° | 3.3 | 4.0 | 5.2 | 10.1 | 30.6 | 30.2 | 30.9 | 19.2 | 27.3 | 20.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945102
 CATALOG NUMBER: GALN-SB1A-927-U-T4W

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 275.0 | 0° | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 | 275.0 |
| 277.2 | 2.5° | 276.3 | 275.9 | 274.3 | 273.6 | 272.7 | 272.6 | 273.3 | 273.4 | 273.6 | 273.7 |
| 280.3 | 5° | 278.9 | 277.4 | 276.0 | 275.1 | 275.4 | 275.6 | 277.0 | 278.0 | 278.7 | 279.3 |
| 286.2 | 7.5° | 283.9 | 282.8 | 280.3 | 280.2 | 280.6 | 281.9 | 283.8 | 286.1 | 287.4 | 288.4 |
| 293.8 | 10° | 291.4 | 289.2 | 286.3 | 286.8 | 287.6 | 289.5 | 293.4 | 295.2 | 297.4 | 299.3 |
| 303.1 | 12.5° | 299.0 | 297.1 | 293.8 | 294.1 | 295.5 | 298.8 | 302.6 | 304.9 | 306.3 | 307.7 |
| 313.2 | 15° | 308.9 | 305.6 | 302.0 | 302.0 | 304.6 | 308.2 | 309.9 | 311.8 | 312.6 | 314.2 |
| 324.0 | 17.5° | 319.1 | 314.8 | 310.0 | 309.8 | 312.9 | 314.6 | 315.6 | 315.9 | 316.2 | 317.9 |
| 334.5 | 20° | 329.3 | 324.5 | 317.8 | 317.2 | 317.9 | 317.7 | 317.5 | 317.2 | 317.7 | 319.8 |
| 345.2 | 22.5° | 339.3 | 333.9 | 324.5 | 322.0 | 319.9 | 317.2 | 317.1 | 316.9 | 317.2 | 319.4 |
| 356.9 | 25° | 351.1 | 344.5 | 332.0 | 324.3 | 317.5 | 313.8 | 314.2 | 314.3 | 314.6 | 316.4 |
| 368.9 | 27.5° | 363.9 | 356.6 | 338.9 | 323.5 | 311.3 | 308.7 | 308.0 | 308.5 | 309.5 | 312.2 |
| 381.0 | 30° | 376.7 | 368.1 | 345.2 | 320.7 | 303.6 | 300.0 | 297.7 | 298.7 | 301.9 | 304.6 |
| 391.5 | 32.5° | 388.3 | 379.7 | 350.2 | 314.3 | 293.7 | 288.1 | 285.1 | 286.3 | 289.5 | 290.5 |
| 403.1 | 35° | 401.9 | 392.2 | 352.4 | 304.3 | 282.9 | 274.3 | 270.3 | 268.4 | 270.0 | 269.0 |
| 416.7 | 37.5° | 417.2 | 407.0 | 352.1 | 291.1 | 270.3 | 260.4 | 254.8 | 247.7 | 244.4 | 241.0 |
| 436.8 | 40° | 439.7 | 425.1 | 348.7 | 275.1 | 254.6 | 245.6 | 235.5 | 223.6 | 216.1 | 209.4 |
| 469.3 | 42.5° | 470.4 | 450.2 | 342.4 | 257.6 | 236.9 | 228.5 | 214.8 | 200.9 | 189.1 | 177.9 |
| 518.6 | 45° | 516.3 | 483.1 | 334.5 | 239.0 | 217.8 | 209.5 | 194.7 | 179.1 | 165.7 | 151.4 |
| 588.5 | 47.5° | 582.3 | 527.3 | 327.0 | 217.7 | 197.7 | 190.1 | 176.8 | 162.3 | 146.5 | 132.5 |
| 689.6 | 50° | 673.1 | 590.8 | 320.1 | 197.0 | 177.9 | 172.2 | 161.6 | 146.8 | 130.8 | 119.6 |
| 808.1 | 52.5° | 788.5 | 677.1 | 317.2 | 177.1 | 159.4 | 157.2 | 148.8 | 135.0 | 119.9 | 110.4 |
| 946.2 | 55° | 921.1 | 780.3 | 317.2 | 158.0 | 143.2 | 143.9 | 138.0 | 125.2 | 112.2 | 103.7 |
| 1088.7 | 57.5° | 1056.3 | 884.9 | 311.5 | 140.3 | 129.4 | 132.4 | 128.7 | 117.5 | 105.7 | 96.9 |
| 1238.4 | 60° | 1181.0 | 972.5 | 288.2 | 124.2 | 117.2 | 121.9 | 119.5 | 109.9 | 95.5 | 88.2 |
| 1363.7 | 62.5° | 1276.8 | 1021.9 | 243.4 | 111.4 | 107.1 | 112.6 | 111.3 | 99.8 | 93.6 | 90.6 |
| 1466.5 | 65° | 1324.7 | 1013.8 | 186.1 | 100.1 | 98.7 | 107.1 | 104.4 | 104.0 | 99.1 | 95.6 |
| 1499.9 | 67.5° | 1295.3 | 944.6 | 135.0 | 91.8 | 93.8 | 102.1 | 112.6 | 114.3 | 105.3 | 98.5 |
| 1405.7 | 70° | 1166.2 | 819.4 | 100.5 | 83.9 | 87.6 | 102.2 | 128.4 | 119.6 | 103.3 | 95.4 |
| 1127.4 | 72.5° | 887.2 | 611.0 | 78.0 | 75.5 | 79.6 | 103.0 | 135.4 | 117.2 | 97.5 | 105.4 |
| 702.4 | 75° | 507.4 | 335.5 | 62.6 | 65.3 | 69.5 | 96.2 | 131.8 | 110.9 | 93.1 | 96.8 |
| 278.3 | 77.5° | 193.4 | 129.0 | 51.7 | 55.3 | 55.9 | 84.0 | 126.1 | 110.4 | 88.6 | 86.4 |
| 83.4 | 80° | 67.1 | 50.4 | 42.8 | 43.9 | 43.2 | 74.7 | 120.9 | 96.1 | 72.5 | 64.9 |
| 34.5 | 82.5° | 27.4 | 25.1 | 33.9 | 32.5 | 30.7 | 58.0 | 97.7 | 78.6 | 59.3 | 52.4 |
| 16.7 | 85° | 11.9 | 15.9 | 22.4 | 19.7 | 17.8 | 40.2 | 78.3 | 66.5 | 50.1 | 43.2 |
| 5.5 | 87.5° | 2.4 | 6.0 | 9.5 | 8.9 | 9.2 | 26.9 | 55.6 | 47.2 | 35.5 | 26.6 |
| 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> |
| 275.0 |
| 274.3 |
| 279.6 |
| 288.6 |
| 298.8 |
| 308.3 |
| 314.8 |
| 318.5 |
| 320.7 |
| 320.8 |
| 318.7 |
| 314.9 |
| 307.6 |
| 294.1 |
| 272.1 |
| 243.1 |
| 209.8 |
| 176.9 |
| 149.6 |
| 131.0 |
| 118.9 |
| 109.7 |
| 102.8 |
| 95.5 |
| 87.0 |
| 89.6 |
| 94.5 |
| 97.4 |
| 94.1 |
| 104.5 |
| 96.8 |
| 78.8 |
| 62.8 |
| 51.8 |
| 43.1 |
| 20.8 |
| 0.0 |

F REPORT)