

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: P945164

Luminaire Tested: **GALN-SB1A-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945164
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-SB1A-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505 lumens
Efficiency: N/A
Efficacy: 81.1 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

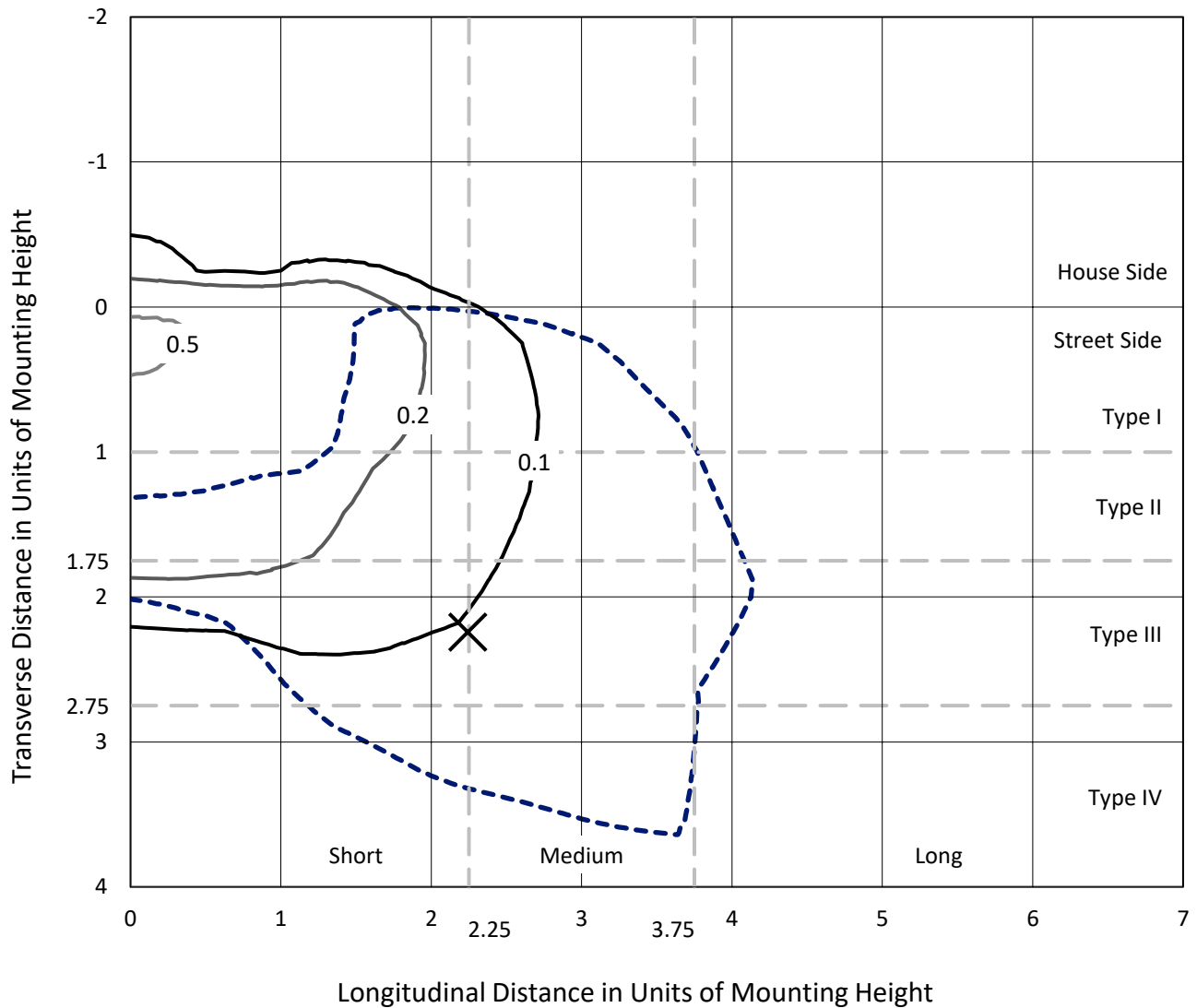
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

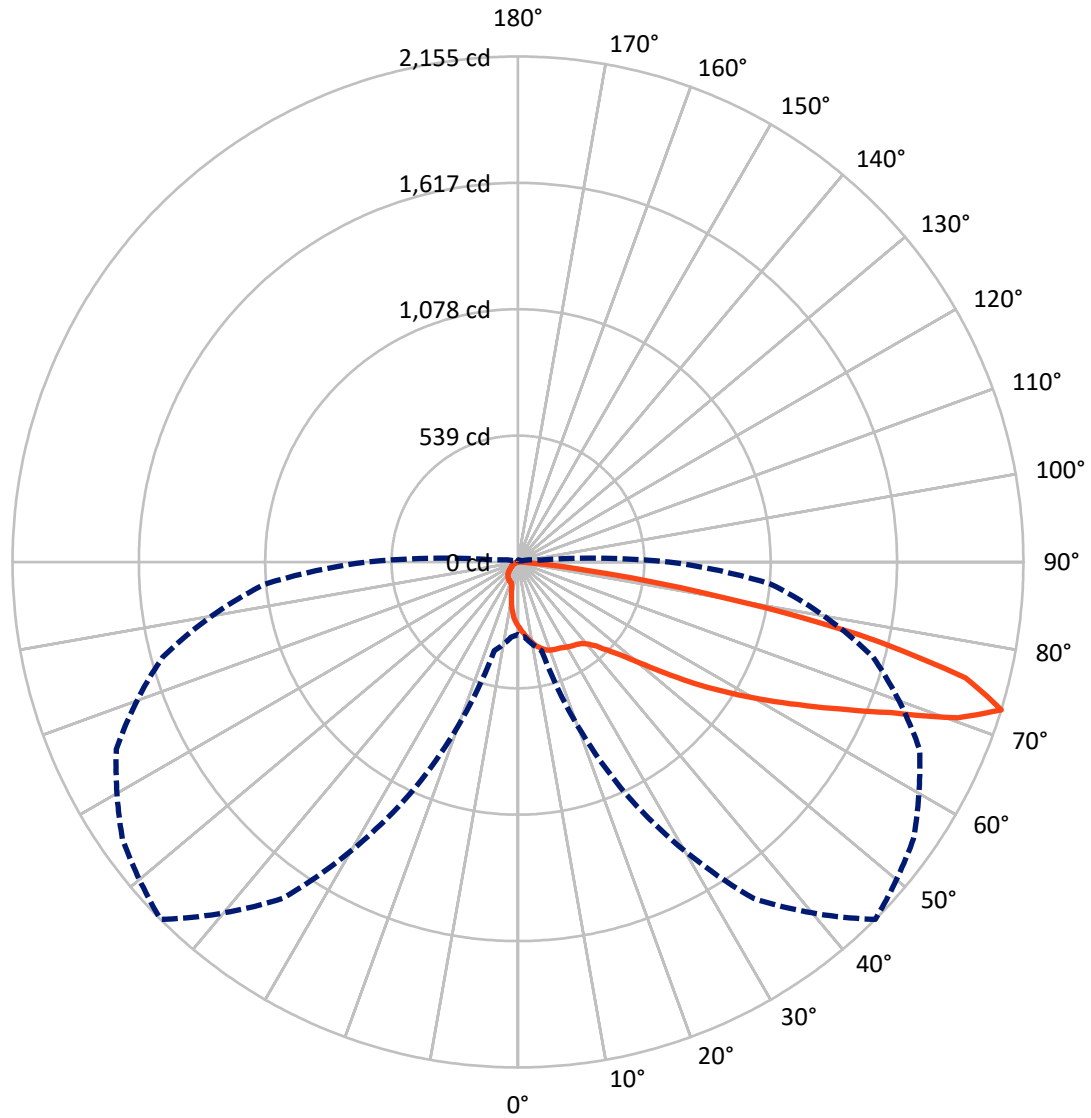
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 263.2 | 0.0 | 263.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 2241.8 | 0.0 | 2241.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 2505.0 | 0.0 | 2505.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.9 | 1.0 |
| 10°-20° | 75.6 | 3.0 |
| 20°-30° | 124.1 | 5.0 |
| 30°-40° | 176.0 | 7.0 |
| 40°-50° | 290.9 | 11.6 |
| 50°-60° | 522.6 | 20.9 |
| 60°-70° | 725.6 | 29.0 |
| 70°-80° | 526.3 | 21.0 |
| 80°-90° | 38.1 | 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° | 2505.0 | 100.0 |
| 0°-180° | 2505.0 | 100.0 |

Coefficient of Utilization



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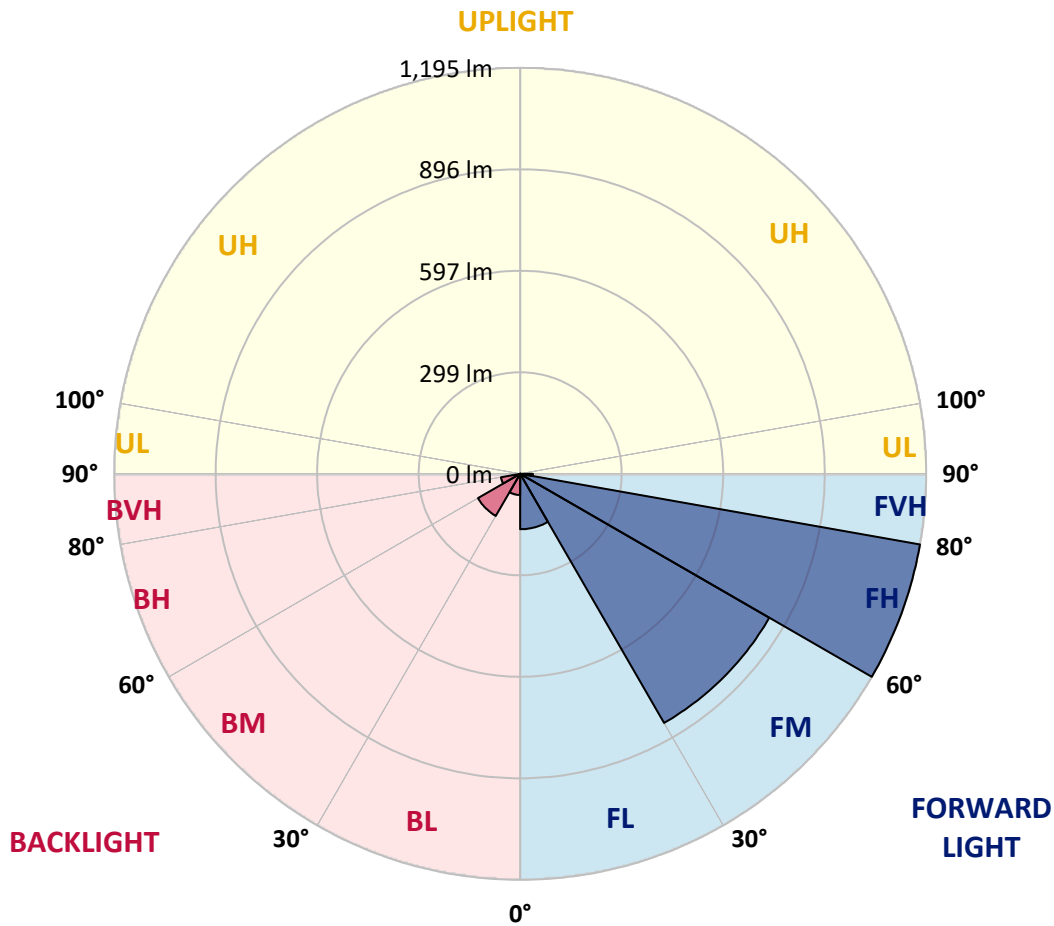
CATALOG NUMBER: GALN-SB1A-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 163.2 | 6.5 | | | |
| FM (30°-60°) | 846.3 | 33.8 | | | |
| FH (60°-80°) | 1194.6 | 47.7 | | | G1/1800 |
| FVH (80°-90°) | 37.7 | 1.5 | | | G1/100 |
| BL (0°-30°) | 62.3 | 2.5 | B0/110 | | |
| BM (30°-60°) | 143.1 | 5.7 | B0/220 | | |
| BH (60°-80°) | 57.4 | 2.3 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 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° | 35° | 45° | 46° | 55° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 2.5° | 299.7 | 300.2 | 299.9 | 297.9 | 294.4 | 292.6 | 291.5 | 288.1 | 285.9 | 282.0 |
| 5° | 327.3 | 329.3 | 328.1 | 324.0 | 317.5 | 312.9 | 311.5 | 304.5 | 298.2 | 290.8 |
| 7.5° | 356.5 | 357.5 | 355.3 | 350.0 | 341.3 | 333.4 | 332.2 | 322.5 | 312.4 | 301.1 |
| 10° | 381.8 | 383.0 | 379.6 | 371.9 | 362.0 | 352.2 | 350.5 | 339.7 | 327.8 | 313.9 |
| 12.5° | 403.0 | 404.2 | 399.8 | 390.5 | 379.6 | 369.5 | 367.8 | 356.5 | 343.3 | 327.9 |
| 15° | 419.1 | 421.3 | 415.3 | 405.4 | 393.6 | 383.5 | 382.7 | 371.5 | 358.7 | 341.6 |
| 17.5° | 428.5 | 430.7 | 425.1 | 413.1 | 403.0 | 394.5 | 393.4 | 384.2 | 372.2 | 355.8 |
| 20° | 430.0 | 432.1 | 426.1 | 415.7 | 407.3 | 400.4 | 399.9 | 393.3 | 384.5 | 368.8 |
| 22.5° | 425.4 | 428.0 | 422.5 | 414.1 | 408.3 | 404.7 | 404.0 | 400.3 | 395.3 | 382.0 |
| 25° | 420.6 | 422.7 | 418.6 | 411.2 | 408.1 | 407.8 | 408.3 | 407.6 | 406.6 | 395.3 |
| 27.5° | 420.3 | 422.5 | 417.9 | 410.9 | 409.2 | 412.8 | 413.3 | 416.5 | 417.4 | 407.5 |
| 30° | 423.2 | 424.7 | 420.3 | 412.9 | 412.1 | 420.3 | 420.4 | 426.3 | 427.6 | 417.7 |
| 32.5° | 429.5 | 431.2 | 426.8 | 416.0 | 414.8 | 426.3 | 426.8 | 434.5 | 436.7 | 428.7 |
| 35° | 444.4 | 446.4 | 441.3 | 424.6 | 420.3 | 431.9 | 433.4 | 442.5 | 447.0 | 440.3 |
| 37.5° | 481.5 | 475.5 | 468.5 | 441.8 | 432.8 | 440.8 | 443.4 | 454.0 | 461.8 | 454.1 |
| 40° | 573.6 | 554.8 | 533.0 | 471.2 | 454.6 | 459.8 | 461.8 | 472.4 | 483.2 | 475.7 |
| 42.5° | 712.0 | 689.7 | 654.5 | 538.9 | 487.6 | 490.2 | 491.7 | 501.0 | 516.2 | 510.2 |
| 45° | 835.3 | 827.2 | 791.3 | 654.5 | 549.4 | 536.7 | 538.6 | 543.4 | 565.8 | 563.6 |
| 47.5° | 930.0 | 925.4 | 897.7 | 787.2 | 653.7 | 593.7 | 599.0 | 601.2 | 633.5 | 641.4 |
| 50° | 1002.8 | 1001.1 | 976.3 | 905.2 | 789.9 | 677.6 | 679.5 | 674.7 | 723.1 | 742.6 |
| 52.5° | 1071.6 | 1077.4 | 1059.1 | 1014.8 | 935.4 | 787.5 | 787.2 | 764.6 | 830.0 | 859.4 |
| 55° | 1133.6 | 1135.7 | 1137.6 | 1126.6 | 1081.8 | 912.7 | 909.5 | 872.5 | 953.9 | 984.4 |
| 57.5° | 1191.9 | 1192.8 | 1209.5 | 1231.9 | 1234.2 | 1047.1 | 1041.1 | 996.8 | 1089.3 | 1111.0 |
| 60° | 1231.1 | 1235.0 | 1270.4 | 1332.6 | 1359.8 | 1185.8 | 1182.5 | 1137.4 | 1227.1 | 1237.2 |
| 62.5° | 1174.7 | 1198.6 | 1287.8 | 1411.3 | 1478.5 | 1339.5 | 1337.9 | 1295.5 | 1372.1 | 1363.9 |
| 65° | 950.8 | 991.4 | 1148.3 | 1464.5 | 1594.9 | 1511.1 | 1513.4 | 1468.2 | 1521.1 | 1494.4 |
| 67.5° | 665.1 | 707.9 | 893.6 | 1468.7 | 1725.0 | 1712.7 | 1725.6 | 1654.8 | 1679.2 | 1619.4 |
| 70° | 459.9 | 482.0 | 602.9 | 1376.8 | 1826.4 | 1990.4 | 1990.1 | 1883.9 | 1836.5 | 1676.3 |
| 72.5° | 309.3 | 320.8 | 391.6 | 1092.2 | 1751.9 | 2155.4 | 2145.5 | 2059.0 | 1889.5 | 1567.7 |
| 75° | 130.5 | 138.8 | 181.2 | 613.8 | 1386.0 | 1971.9 | 1945.1 | 1819.6 | 1678.9 | 1234.5 |
| 77.5° | 41.4 | 45.0 | 71.5 | 219.7 | 763.4 | 1482.3 | 1453.9 | 1136.4 | 1125.2 | 619.3 |
| 80° | 19.7 | 22.9 | 40.2 | 88.2 | 300.4 | 806.2 | 802.3 | 515.5 | 484.1 | 167.2 |
| 82.5° | 8.5 | 10.1 | 22.2 | 47.2 | 134.4 | 287.6 | 293.4 | 175.4 | 145.2 | 63.4 |
| 85° | 2.7 | 3.6 | 10.3 | 21.7 | 56.8 | 71.5 | 70.6 | 41.7 | 58.5 | 34.5 |
| 87.5° | 0.0 | 0.0 | 3.4 | 5.0 | 5.8 | 4.1 | 4.6 | 3.6 | 16.2 | 9.6 |
| 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° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 274.4 | 0° | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 | 274.4 |
| 277.8 | 2.5° | 275.8 | 273.1 | 268.3 | 263.8 | 259.9 | 256.0 | 253.6 | 250.1 | 249.8 | 249.8 |
| 282.3 | 5° | 277.7 | 273.2 | 264.7 | 255.6 | 245.2 | 235.3 | 225.4 | 215.8 | 212.7 | 210.5 |
| 289.5 | 7.5° | 283.1 | 276.1 | 262.6 | 245.4 | 225.5 | 203.8 | 188.6 | 172.2 | 165.9 | 162.4 |
| 299.0 | 10° | 291.0 | 281.4 | 260.9 | 230.7 | 198.5 | 168.9 | 147.2 | 129.4 | 122.6 | 119.7 |
| 309.5 | 12.5° | 299.7 | 287.9 | 257.8 | 212.4 | 168.9 | 133.5 | 112.3 | 104.1 | 103.1 | 103.1 |
| 322.0 | 15° | 310.2 | 295.8 | 252.5 | 190.8 | 138.0 | 105.7 | 98.1 | 98.5 | 99.5 | 100.2 |
| 334.1 | 17.5° | 320.9 | 304.2 | 244.2 | 166.7 | 110.6 | 95.1 | 95.2 | 95.8 | 96.6 | 97.3 |
| 347.3 | 20° | 332.6 | 312.6 | 233.1 | 141.1 | 94.9 | 92.0 | 92.5 | 93.0 | 93.7 | 94.0 |
| 359.6 | 22.5° | 345.0 | 320.4 | 219.9 | 115.9 | 89.6 | 89.4 | 89.6 | 90.1 | 91.0 | 91.0 |
| 373.9 | 25° | 358.4 | 329.1 | 204.8 | 97.6 | 86.9 | 86.9 | 87.2 | 87.5 | 88.2 | 88.2 |
| 387.8 | 27.5° | 372.1 | 337.2 | 188.9 | 88.1 | 84.5 | 84.3 | 84.3 | 84.8 | 85.1 | 85.3 |
| 401.5 | 30° | 387.1 | 346.6 | 173.0 | 86.0 | 82.6 | 81.7 | 81.2 | 81.6 | 81.9 | 82.1 |
| 415.8 | 32.5° | 402.5 | 355.6 | 158.8 | 86.9 | 80.7 | 79.2 | 77.5 | 77.1 | 77.1 | 77.8 |
| 430.7 | 35° | 419.6 | 365.6 | 147.9 | 89.8 | 79.7 | 75.4 | 72.7 | 71.1 | 71.3 | 72.3 |
| 448.5 | 37.5° | 440.1 | 377.5 | 139.9 | 92.3 | 79.0 | 71.1 | 66.7 | 64.8 | 63.6 | 64.8 |
| 472.9 | 40° | 467.0 | 395.1 | 134.1 | 94.4 | 78.1 | 66.2 | 60.2 | 57.1 | 54.9 | 55.6 |
| 510.9 | 42.5° | 506.5 | 422.8 | 131.8 | 94.6 | 76.3 | 60.4 | 53.5 | 49.4 | 46.2 | 46.3 |
| 568.0 | 45° | 561.9 | 466.6 | 143.3 | 92.3 | 72.2 | 54.0 | 46.5 | 41.0 | 39.0 | 38.5 |
| 653.3 | 47.5° | 637.8 | 530.4 | 169.8 | 87.7 | 66.2 | 47.9 | 39.7 | 35.1 | 33.5 | 32.7 |
| 765.3 | 50° | 739.5 | 612.3 | 199.2 | 82.6 | 60.2 | 42.1 | 34.0 | 31.1 | 30.1 | 29.2 |
| 898.2 | 52.5° | 857.5 | 695.4 | 223.3 | 77.5 | 54.2 | 36.9 | 30.4 | 28.7 | 27.9 | 27.2 |
| 1026.4 | 55° | 965.7 | 752.7 | 221.9 | 72.0 | 48.4 | 32.8 | 27.9 | 26.8 | 25.8 | 25.1 |
| 1136.9 | 57.5° | 1033.1 | 760.7 | 183.0 | 66.0 | 41.7 | 29.6 | 25.5 | 24.8 | 23.6 | 22.7 |
| 1232.4 | 60° | 1064.0 | 714.9 | 128.2 | 58.1 | 35.1 | 26.5 | 22.9 | 22.6 | 21.0 | 19.8 |
| 1322.9 | 62.5° | 1069.7 | 629.7 | 85.5 | 48.4 | 29.2 | 23.6 | 20.3 | 19.8 | 17.8 | 15.7 |
| 1396.4 | 65° | 1046.8 | 508.0 | 59.2 | 37.8 | 25.0 | 20.5 | 17.4 | 16.4 | 14.2 | 12.1 |
| 1413.9 | 67.5° | 974.3 | 356.7 | 41.2 | 27.2 | 21.2 | 16.2 | 13.8 | 13.5 | 11.8 | 10.1 |
| 1324.9 | 70° | 841.4 | 203.3 | 27.5 | 20.3 | 16.8 | 11.1 | 10.9 | 11.3 | 9.6 | 8.2 |
| 1082.5 | 72.5° | 645.1 | 93.0 | 17.1 | 14.9 | 11.5 | 7.5 | 8.7 | 8.9 | 7.4 | 6.2 |
| 675.4 | 75° | 379.8 | 39.8 | 10.8 | 9.6 | 5.8 | 5.0 | 6.3 | 6.5 | 5.0 | 3.9 |
| 246.9 | 77.5° | 129.3 | 15.0 | 6.8 | 5.6 | 2.9 | 2.7 | 4.1 | 4.1 | 2.7 | 1.5 |
| 49.6 | 80° | 29.4 | 5.6 | 3.4 | 2.2 | 1.4 | 1.2 | 1.4 | 1.2 | 0.7 | 0.2 |
| 15.2 | 82.5° | 8.4 | 2.2 | 1.4 | 0.9 | 0.5 | 0.5 | 0.2 | 0.0 | 0.0 | 0.0 |
| 5.3 | 85° | 2.4 | 1.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.9 | 87.5° | 1.0 | 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> |
| 274.4 |
| 250.7 |
| 211.5 |
| 162.9 |
| 119.7 |
| 103.1 |
| 100.2 |
| 97.3 |
| 94.2 |
| 91.3 |
| 88.4 |
| 85.5 |
| 82.4 |
| 78.3 |
| 72.8 |
| 64.5 |
| 55.2 |
| 45.7 |
| 37.8 |
| 32.1 |
| 29.1 |
| 27.0 |
| 24.8 |
| 22.6 |
| 19.5 |
| 14.7 |
| 11.5 |
| 9.6 |
| 7.5 |
| 5.5 |
| 3.4 |
| 1.2 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

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