

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: P945519

Luminaire Tested: **GALN-SB1B-940-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-940-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3398 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

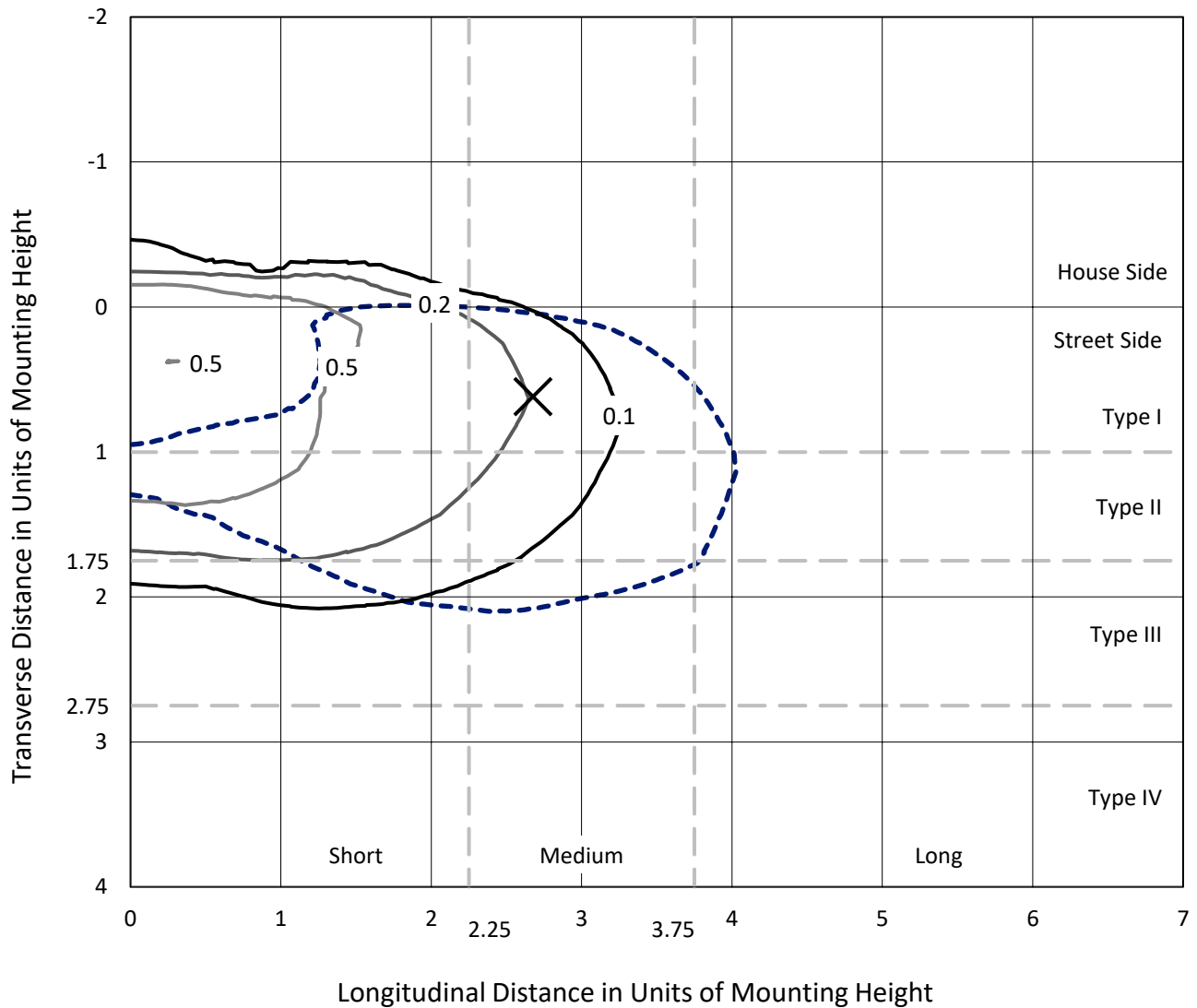
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945519
 CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

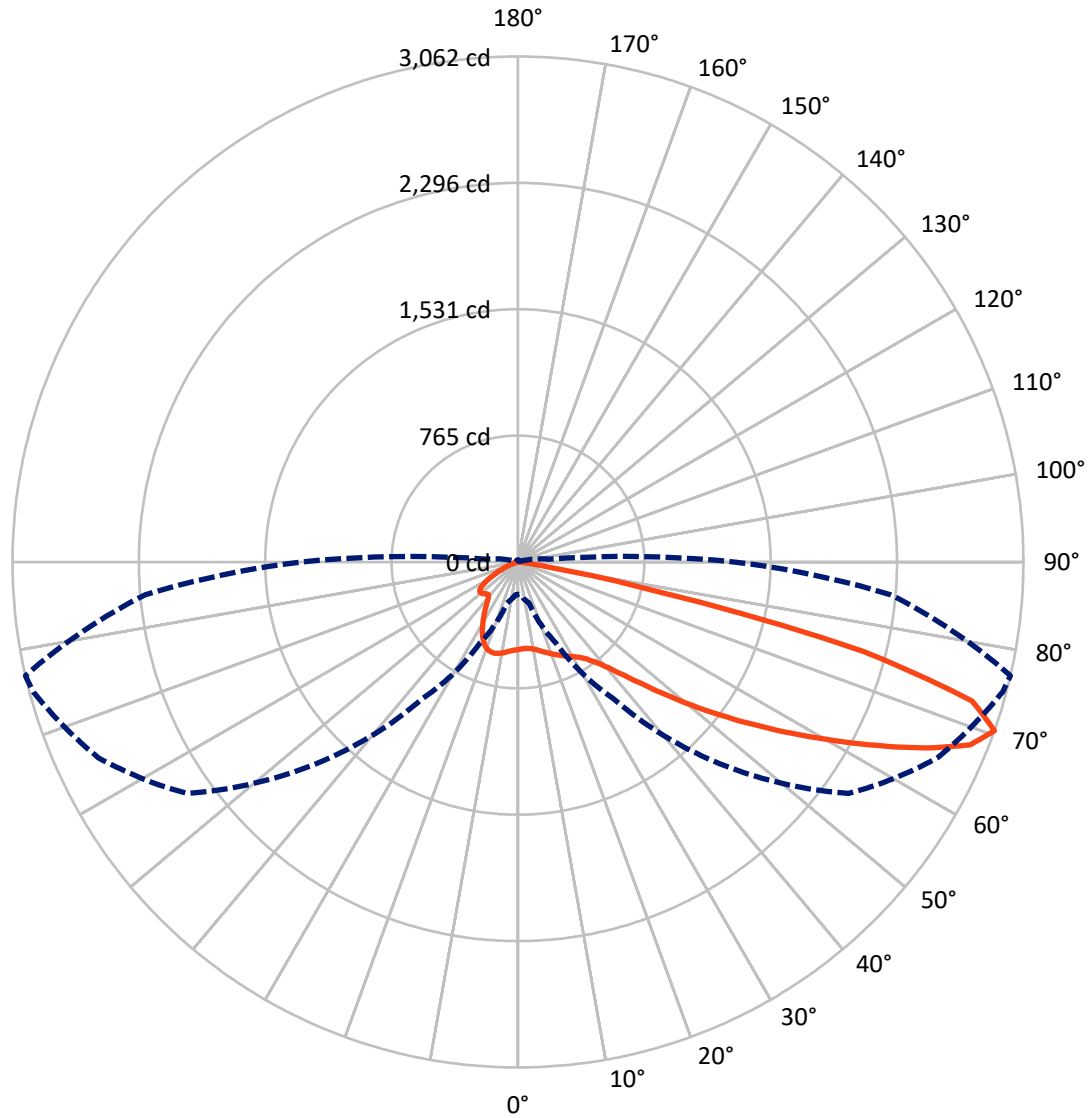
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Medium - N/A

REPORT NUMBER: P945519
CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P945519
 CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 358.2 | 0.0 | 358.2 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 3039.8 | 0.0 | 3039.8 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 3398.0 | 0.0 | 3398.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 45.7 | 1.3 |
| 10°-20° | 108.4 | 3.2 |
| 20°-30° | 167.7 | 4.9 |
| 30°-40° | 304.3 | 9.0 |
| 40°-50° | 574.5 | 16.9 |
| 50°-60° | 830.1 | 24.4 |
| 60°-70° | 883.6 | 26.0 |
| 70°-80° | 468.2 | 13.8 |
| 80°-90° | 15.4 | 0.5 |
| 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° | 3398.0 | 100.0 |
| 0°-180° | 3398.0 | 100.0 |

Coefficient of Utilization



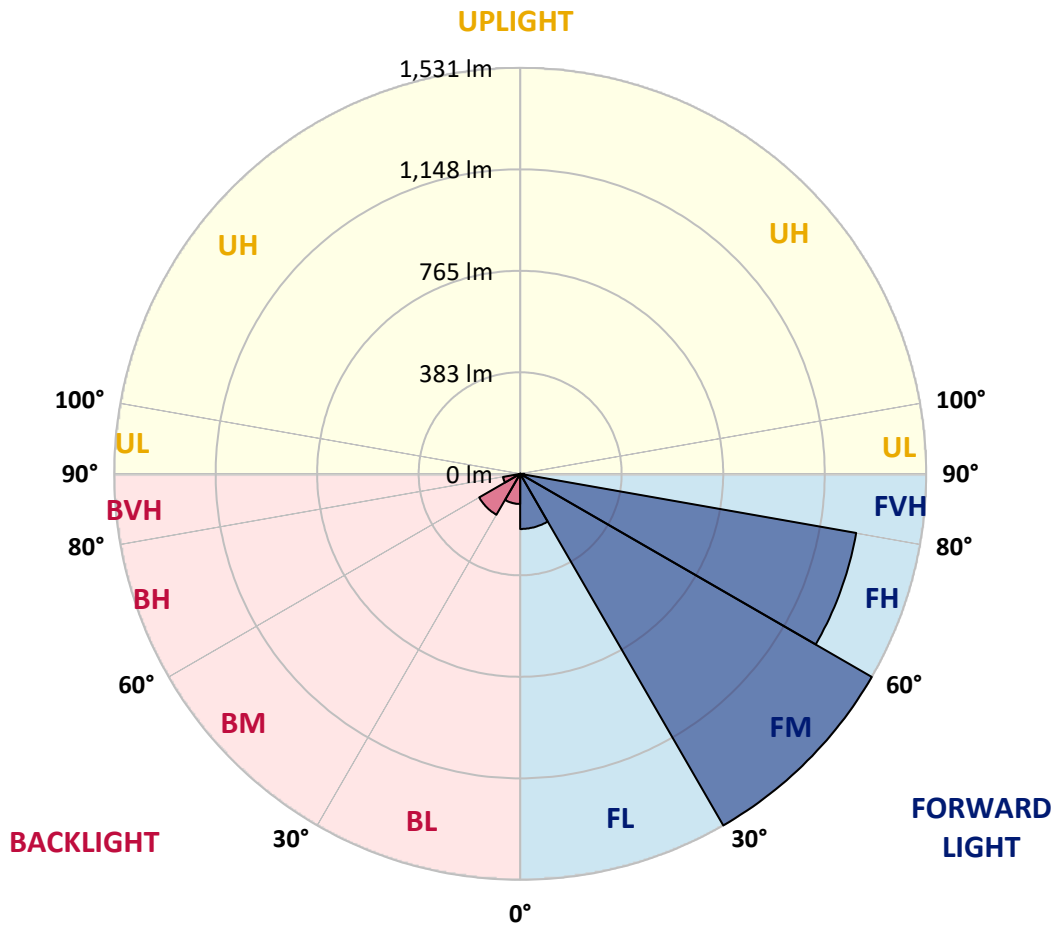
REPORT NUMBER: P945519
 CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 208.0 | 6.1 | | | |
| FM (30°-60°) | 1530.6 | 45.0 | | | |
| FH (60°-80°) | 1286.2 | 37.9 | | | G1/1800 |
| FVH (80°-90°) | 15.0 | 0.4 | | | G1/100 |
| BL (0°-30°) | 113.8 | 3.3 | B1/500 | | |
| BM (30°-60°) | 178.3 | 5.2 | B0/220 | | |
| BH (60°-80°) | 65.7 | 1.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 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-G1

Type III Medium



REPORT NUMBER: P945519
 CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 |
| 2.5° | 497.6 | 502.1 | 501.5 | 504.5 | 505.6 | 509.9 | 514.1 | 519.9 | 526.4 | 526.2 |
| 5° | 469.5 | 474.0 | 475.1 | 479.2 | 484.3 | 491.0 | 499.8 | 511.4 | 523.4 | 525.3 |
| 7.5° | 436.3 | 441.0 | 443.8 | 451.9 | 461.4 | 475.1 | 489.5 | 506.4 | 526.4 | 529.2 |
| 10° | 403.0 | 407.3 | 410.9 | 422.5 | 437.5 | 457.9 | 481.3 | 505.8 | 532.6 | 536.7 |
| 12.5° | 382.4 | 386.5 | 390.5 | 400.6 | 419.3 | 444.2 | 476.0 | 508.8 | 542.9 | 548.7 |
| 15° | 375.1 | 378.7 | 382.0 | 391.0 | 408.4 | 436.7 | 474.9 | 515.0 | 556.0 | 563.7 |
| 17.5° | 376.2 | 378.1 | 380.2 | 387.1 | 404.1 | 433.2 | 476.8 | 525.7 | 571.4 | 578.3 |
| 20° | 382.4 | 383.5 | 383.7 | 388.4 | 403.4 | 432.8 | 480.7 | 536.0 | 586.0 | 595.3 |
| 22.5° | 390.3 | 390.8 | 390.3 | 393.6 | 407.5 | 436.0 | 485.8 | 548.5 | 602.3 | 610.9 |
| 25° | 427.5 | 419.3 | 409.0 | 402.8 | 414.4 | 442.3 | 493.5 | 565.2 | 620.2 | 628.5 |
| 27.5° | 542.7 | 519.3 | 482.4 | 441.0 | 428.5 | 451.3 | 504.3 | 582.2 | 638.2 | 645.7 |
| 30° | 729.8 | 699.1 | 636.5 | 543.1 | 474.0 | 470.2 | 518.2 | 599.1 | 657.3 | 665.4 |
| 32.5° | 917.4 | 909.8 | 837.5 | 708.3 | 576.4 | 512.2 | 541.4 | 622.1 | 682.6 | 689.0 |
| 35° | 1107.0 | 1091.8 | 1032.6 | 904.9 | 734.1 | 597.8 | 580.0 | 652.1 | 715.9 | 723.2 |
| 37.5° | 1252.3 | 1243.1 | 1206.4 | 1101.3 | 921.2 | 730.0 | 646.1 | 698.7 | 764.1 | 772.3 |
| 40° | 1380.6 | 1376.4 | 1363.9 | 1294.6 | 1130.4 | 903.0 | 748.9 | 770.8 | 831.1 | 840.7 |
| 42.5° | 1481.5 | 1491.6 | 1498.7 | 1479.4 | 1346.1 | 1100.4 | 887.1 | 872.1 | 924.4 | 934.3 |
| 45° | 1584.7 | 1588.1 | 1616.7 | 1644.6 | 1560.3 | 1306.8 | 1042.9 | 990.7 | 1040.5 | 1052.8 |
| 47.5° | 1651.0 | 1664.8 | 1715.0 | 1764.1 | 1740.3 | 1511.5 | 1210.3 | 1130.9 | 1175.1 | 1198.0 |
| 50° | 1656.0 | 1681.9 | 1751.0 | 1836.6 | 1871.4 | 1706.4 | 1392.2 | 1290.5 | 1337.5 | 1362.8 |
| 52.5° | 1573.8 | 1614.1 | 1721.2 | 1846.5 | 1942.2 | 1871.4 | 1580.4 | 1450.2 | 1510.5 | 1543.5 |
| 55° | 1206.6 | 1259.4 | 1609.0 | 1792.9 | 1945.0 | 1996.5 | 1763.7 | 1616.5 | 1703.2 | 1740.5 |
| 57.5° | 1051.3 | 1077.9 | 1265.0 | 1699.7 | 1893.3 | 2046.9 | 1929.3 | 1774.8 | 1912.8 | 1959.2 |
| 60° | 874.7 | 909.6 | 1060.9 | 1547.4 | 1823.1 | 2051.9 | 2075.7 | 1979.1 | 2140.1 | 2192.2 |
| 62.5° | 594.4 | 632.4 | 782.8 | 1285.6 | 1727.2 | 2049.5 | 2195.6 | 2189.4 | 2392.6 | 2448.6 |
| 65° | 368.2 | 392.0 | 491.2 | 1049.8 | 1593.1 | 2052.1 | 2321.2 | 2444.8 | 2659.1 | 2716.0 |
| 67.5° | 291.0 | 301.9 | 353.6 | 806.0 | 1362.0 | 1994.1 | 2446.5 | 2684.9 | 2910.0 | 2955.1 |
| 70° | 195.5 | 202.1 | 257.3 | 540.3 | 1013.3 | 1726.8 | 2444.1 | 2805.5 | 3039.2 | 3061.7 |
| 72.5° | 103.0 | 108.2 | 150.4 | 250.2 | 612.0 | 1227.4 | 2060.2 | 2661.3 | 2910.6 | 2876.7 |
| 75° | 51.5 | 60.1 | 101.3 | 127.0 | 261.4 | 684.5 | 1279.4 | 2098.2 | 2290.9 | 2159.6 |
| 77.5° | 39.1 | 47.2 | 83.7 | 83.7 | 91.0 | 230.5 | 541.8 | 1144.4 | 1055.5 | 878.9 |
| 80° | 24.9 | 32.2 | 73.2 | 63.3 | 38.0 | 58.6 | 141.2 | 320.6 | 224.2 | 170.6 |
| 82.5° | 14.6 | 21.0 | 60.9 | 41.8 | 21.2 | 21.7 | 39.9 | 68.2 | 58.2 | 45.3 |
| 85° | 5.8 | 13.7 | 41.8 | 16.5 | 8.4 | 5.4 | 12.0 | 14.6 | 12.0 | 9.0 |
| 87.5° | 0.0 | 3.2 | 7.3 | 0.0 | 0.6 | 0.4 | 0.9 | 1.1 | 1.1 | 0.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945519
 CATALOG NUMBER: GALN-SB1B-940-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 530.0 | 0° | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 |
| 530.5 | 2.5° | 532.4 | 532.8 | 534.1 | 534.3 | 531.3 | 527.5 | 525.9 | 525.3 | 522.7 | 522.5 |
| 533.9 | 5° | 538.8 | 540.8 | 538.8 | 533.2 | 519.9 | 501.3 | 487.1 | 475.5 | 465.0 | 461.8 |
| 545.7 | 7.5° | 551.7 | 553.6 | 547.8 | 525.9 | 492.5 | 455.4 | 421.9 | 398.3 | 377.0 | 369.1 |
| 560.1 | 10° | 570.2 | 572.7 | 554.5 | 510.3 | 451.1 | 391.4 | 334.8 | 294.8 | 263.7 | 251.1 |
| 579.6 | 12.5° | 593.3 | 594.4 | 558.1 | 486.5 | 397.2 | 312.0 | 231.8 | 189.0 | 161.4 | 151.1 |
| 603.2 | 15° | 618.9 | 617.4 | 558.6 | 454.1 | 323.8 | 220.6 | 151.3 | 124.2 | 113.1 | 109.7 |
| 626.8 | 17.5° | 645.7 | 639.5 | 550.0 | 407.3 | 243.3 | 150.9 | 112.2 | 105.8 | 103.9 | 103.0 |
| 650.2 | 20° | 672.1 | 658.1 | 534.3 | 346.1 | 174.7 | 112.7 | 101.9 | 100.0 | 98.9 | 98.5 |
| 673.8 | 22.5° | 696.1 | 672.3 | 507.5 | 275.1 | 126.8 | 99.6 | 96.3 | 94.6 | 92.7 | 91.8 |
| 696.8 | 25° | 719.5 | 680.5 | 469.7 | 208.8 | 101.5 | 93.1 | 90.6 | 87.3 | 84.8 | 83.7 |
| 721.4 | 27.5° | 742.3 | 685.6 | 422.5 | 154.5 | 90.6 | 87.1 | 82.4 | 77.9 | 76.0 | 75.5 |
| 747.8 | 30° | 766.5 | 687.3 | 368.9 | 115.2 | 83.9 | 79.6 | 72.7 | 67.6 | 66.5 | 66.7 |
| 783.5 | 32.5° | 796.1 | 689.9 | 314.8 | 94.4 | 78.3 | 70.6 | 62.4 | 57.1 | 56.2 | 57.1 |
| 835.4 | 35° | 831.5 | 695.0 | 262.7 | 86.9 | 73.4 | 61.4 | 52.6 | 48.1 | 47.2 | 47.9 |
| 901.9 | 37.5° | 879.6 | 703.4 | 213.9 | 85.4 | 69.3 | 53.6 | 44.2 | 40.6 | 40.6 | 40.8 |
| 983.4 | 40° | 943.5 | 725.7 | 170.4 | 84.3 | 67.2 | 47.9 | 37.3 | 35.8 | 36.5 | 36.9 |
| 1087.3 | 42.5° | 1021.4 | 773.2 | 141.0 | 83.0 | 64.8 | 45.3 | 33.9 | 33.3 | 34.3 | 34.8 |
| 1211.8 | 45° | 1108.8 | 833.2 | 130.7 | 80.9 | 62.7 | 47.0 | 32.4 | 31.5 | 32.8 | 33.0 |
| 1351.2 | 47.5° | 1199.1 | 892.0 | 129.4 | 78.5 | 60.5 | 49.6 | 32.0 | 30.0 | 31.5 | 31.8 |
| 1500.2 | 50° | 1290.5 | 930.4 | 130.7 | 74.9 | 57.1 | 49.6 | 32.2 | 28.5 | 29.8 | 30.5 |
| 1654.7 | 52.5° | 1382.6 | 948.0 | 129.8 | 67.0 | 51.1 | 46.6 | 32.2 | 27.3 | 28.5 | 29.0 |
| 1821.6 | 55° | 1471.8 | 944.6 | 116.7 | 55.1 | 43.3 | 41.2 | 31.3 | 26.2 | 27.0 | 27.3 |
| 1979.3 | 57.5° | 1542.4 | 896.8 | 92.5 | 42.9 | 35.2 | 34.3 | 28.5 | 24.9 | 25.5 | 25.3 |
| 2124.0 | 60° | 1579.4 | 791.6 | 66.1 | 33.0 | 27.7 | 27.0 | 25.1 | 23.2 | 23.6 | 22.5 |
| 2246.5 | 62.5° | 1579.8 | 652.6 | 44.2 | 26.2 | 22.1 | 21.5 | 21.5 | 20.8 | 20.4 | 18.2 |
| 2341.3 | 65° | 1546.1 | 498.3 | 29.4 | 20.8 | 17.8 | 16.7 | 18.0 | 17.8 | 16.3 | 13.3 |
| 2370.3 | 67.5° | 1469.7 | 326.6 | 22.3 | 16.3 | 13.7 | 13.1 | 14.4 | 15.0 | 13.9 | 11.2 |
| 2264.7 | 70° | 1312.6 | 190.1 | 18.5 | 12.7 | 10.3 | 9.7 | 11.6 | 12.9 | 11.6 | 9.0 |
| 1935.8 | 72.5° | 1090.3 | 102.6 | 15.0 | 9.4 | 7.1 | 6.4 | 9.2 | 10.5 | 9.2 | 6.7 |
| 1242.0 | 75° | 707.5 | 54.9 | 11.6 | 6.2 | 3.6 | 4.1 | 6.9 | 7.7 | 6.4 | 4.3 |
| 364.6 | 77.5° | 237.5 | 24.2 | 7.3 | 3.0 | 1.7 | 1.7 | 4.1 | 4.7 | 3.0 | 1.5 |
| 66.3 | 80° | 53.0 | 10.1 | 3.0 | 1.3 | 0.6 | 0.6 | 0.9 | 0.9 | 0.4 | 0.0 |
| 20.4 | 82.5° | 17.4 | 4.1 | 1.3 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.2 | 85° | 6.7 | 1.5 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.7 | 87.5° | 2.6 | 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> |
| 530.0 |
| 522.9 |
| 459.9 |
| 365.9 |
| 245.7 |
| 147.8 |
| 109.7 |
| 102.8 |
| 98.1 |
| 91.6 |
| 83.3 |
| 75.1 |
| 66.7 |
| 56.9 |
| 47.6 |
| 40.6 |
| 36.9 |
| 34.8 |
| 33.3 |
| 32.0 |
| 30.7 |
| 29.0 |
| 27.3 |
| 25.3 |
| 22.3 |
| 17.6 |
| 12.9 |
| 10.9 |
| 8.6 |
| 6.4 |
| 3.9 |
| 1.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)