

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: P939179

Luminaire Tested: **GALN-SB1C-927-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-927-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

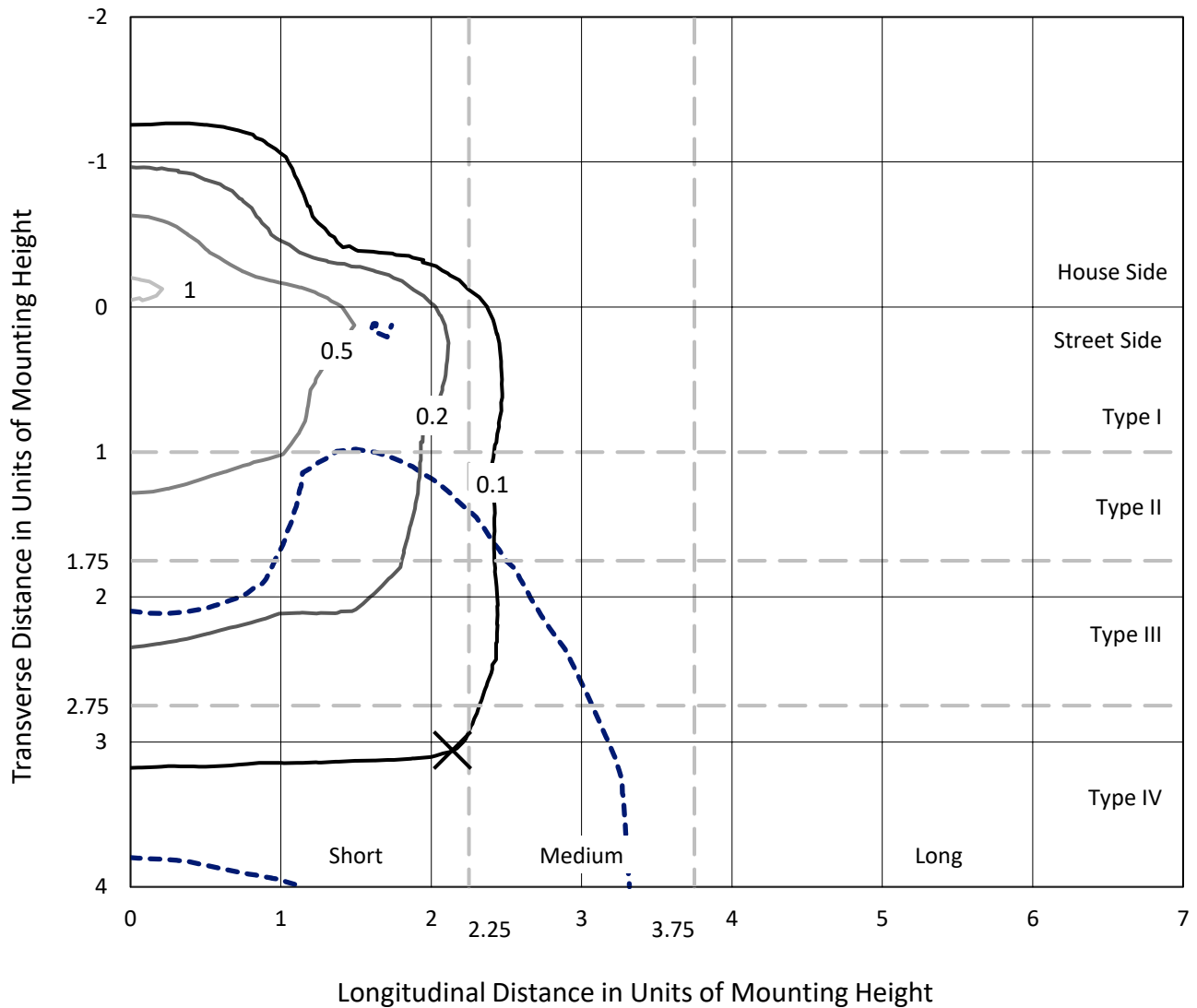
Lumens per Lamp: N/A  
Luminaire Lumens: 4507 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939179  
 CATALOG NUMBER: GALN-SB1C-927-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

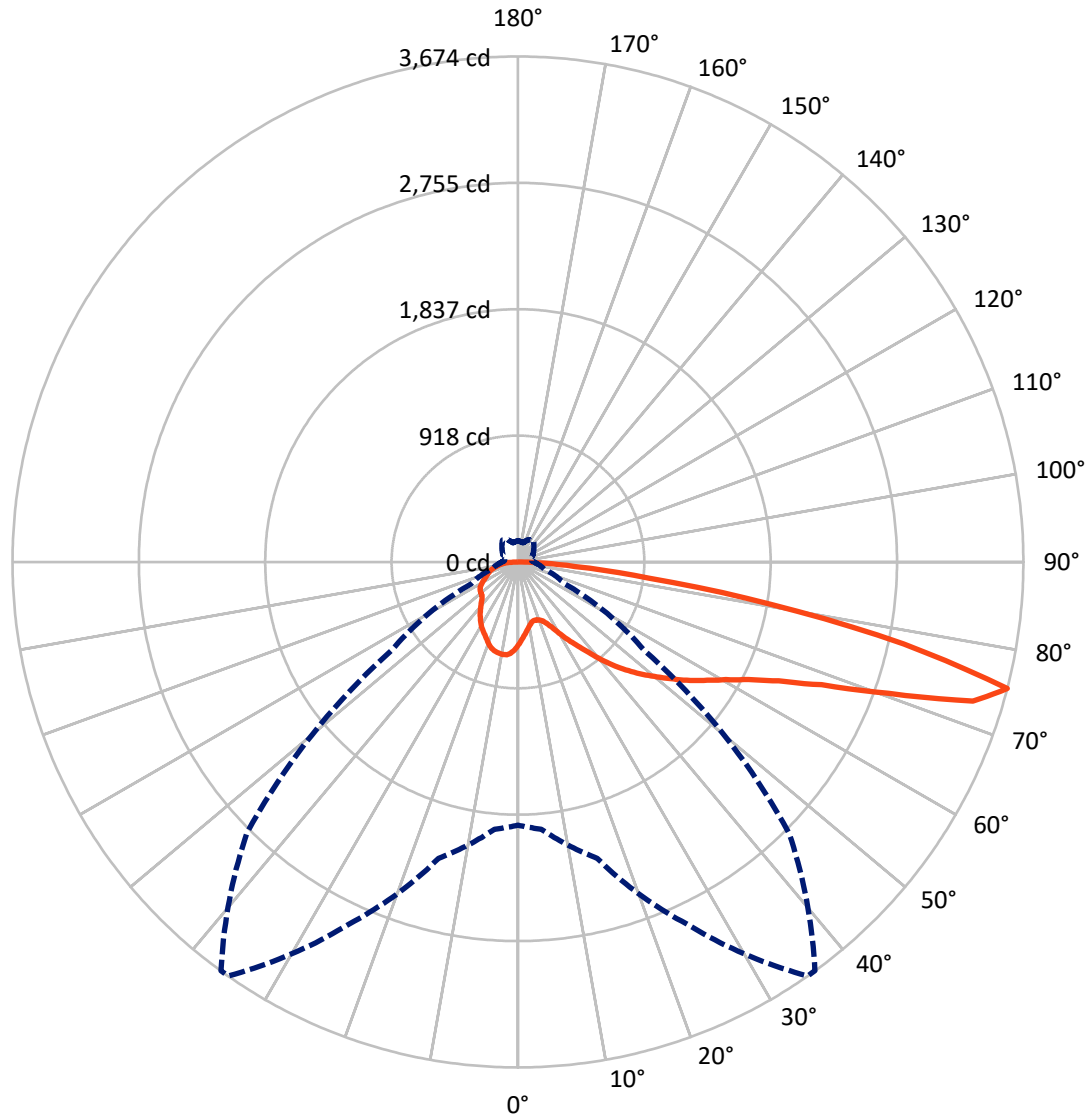
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P939179  
CATALOG NUMBER: GALN-SB1C-927-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939179  
 CATALOG NUMBER: GALN-SB1C-927-U-T4FT

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1072.6   | 0.0    | 1072.6 |
|                    | % Fixture | 23.8     | 0.0    | 23.8   |
| <b>Street Side</b> | Lumens    | 3434.5   | 0.0    | 3434.5 |
|                    | % Fixture | 76.2     | 0.0    | 76.2   |
| <b>Total</b>       | Lumens    | 4507.0   | 0.0    | 4507.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.9   | 1.3       |
| 10°-20°   | 164.0  | 3.6       |
| 20°-30°   | 275.4  | 6.1       |
| 30°-40°   | 428.1  | 9.5       |
| 40°-50°   | 635.4  | 14.1      |
| 50°-60°   | 877.1  | 19.5      |
| 60°-70°   | 1064.2 | 23.6      |
| 70°-80°   | 879.5  | 19.5      |
| 80°-90°   | 126.5  | 2.8       |
| 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°    | 4507.0 | 100.0     |
| 0°-180°   | 4507.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P939179

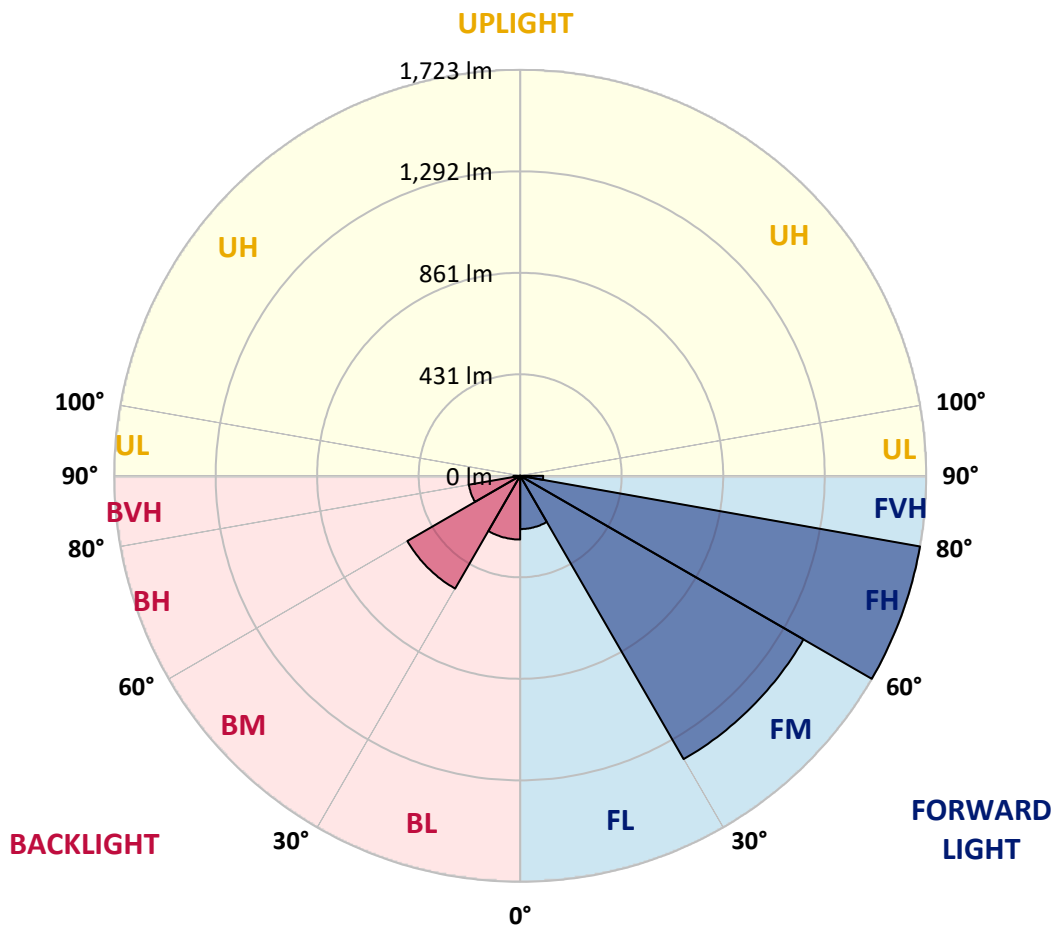
CATALOG NUMBER: GALN-SB1C-927-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 226.0  | 5.0       |                         |      |         |
| FM (30°-60°)   | 1387.9 | 30.8      |                         |      |         |
| FH (60°-80°)   | 1722.5 | 38.2      |                         |      | G1/1800 |
| FVH (80°-90°)  | 98.0   | 2.2       |                         |      | G1/100  |
| BL (0°-30°)    | 270.3  | 6.0       | B1/500                  |      |         |
| BM (30°-60°)   | 552.6  | 12.3      | B1/1000                 |      |         |
| BH (60°-80°)   | 221.1  | 4.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 28.5   | 0.6       |                         |      | 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: P939179

CATALOG NUMBER: GALN-SB1C-927-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 36°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  | 600.6  |
| 2.5°  | 553.8  | 557.2  | 558.7  | 558.0  | 561.6  | 561.1  | 566.2  | 572.6  | 581.3  | 589.9  |
| 5°    | 511.2  | 514.8  | 518.0  | 520.9  | 528.0  | 530.2  | 538.2  | 550.4  | 566.5  | 582.8  |
| 7.5°  | 471.5  | 474.6  | 479.5  | 484.9  | 496.8  | 499.0  | 512.4  | 531.4  | 553.8  | 577.7  |
| 10°   | 439.1  | 442.2  | 447.3  | 453.4  | 468.3  | 471.0  | 488.0  | 513.4  | 542.6  | 572.8  |
| 12.5° | 425.2  | 426.1  | 429.1  | 435.2  | 448.1  | 449.8  | 468.5  | 497.5  | 531.6  | 569.2  |
| 15°   | 424.4  | 426.4  | 426.6  | 429.8  | 440.5  | 441.2  | 458.5  | 487.3  | 524.8  | 568.4  |
| 17.5° | 431.7  | 433.2  | 431.0  | 433.0  | 442.0  | 443.2  | 456.8  | 482.4  | 522.6  | 571.6  |
| 20°   | 451.2  | 452.5  | 445.9  | 443.2  | 449.8  | 450.7  | 464.1  | 485.6  | 524.8  | 578.2  |
| 22.5° | 492.7  | 493.4  | 477.3  | 466.3  | 466.8  | 467.3  | 479.0  | 498.5  | 533.3  | 590.1  |
| 25°   | 557.2  | 556.7  | 531.1  | 510.0  | 497.8  | 495.1  | 502.9  | 519.5  | 547.7  | 605.9  |
| 27.5° | 632.7  | 629.1  | 603.5  | 571.8  | 545.3  | 541.4  | 539.7  | 546.7  | 568.2  | 626.9  |
| 30°   | 718.0  | 714.6  | 687.1  | 645.7  | 608.9  | 602.5  | 586.5  | 582.8  | 598.6  | 655.4  |
| 32.5° | 811.6  | 809.4  | 776.5  | 726.3  | 677.1  | 669.8  | 642.7  | 633.0  | 645.4  | 698.5  |
| 35°   | 890.0  | 888.1  | 860.8  | 809.1  | 749.0  | 740.0  | 712.4  | 701.5  | 707.8  | 753.8  |
| 37.5° | 960.9  | 960.0  | 936.6  | 895.9  | 833.8  | 822.8  | 791.9  | 788.2  | 787.0  | 826.7  |
| 40°   | 1026.7 | 1024.3 | 999.9  | 978.5  | 932.4  | 922.4  | 895.2  | 892.0  | 882.7  | 916.4  |
| 42.5° | 1099.6 | 1093.2 | 1057.9 | 1047.9 | 1035.5 | 1027.2 | 1010.9 | 1011.4 | 990.9  | 1017.5 |
| 45°   | 1159.0 | 1155.4 | 1119.1 | 1113.2 | 1126.6 | 1123.2 | 1137.3 | 1141.0 | 1101.3 | 1123.5 |
| 47.5° | 1222.9 | 1219.4 | 1188.8 | 1184.6 | 1220.9 | 1221.9 | 1271.8 | 1273.1 | 1209.0 | 1233.6 |
| 50°   | 1301.6 | 1296.7 | 1266.2 | 1271.3 | 1312.0 | 1315.7 | 1407.1 | 1398.8 | 1308.1 | 1345.4 |
| 52.5° | 1353.5 | 1356.4 | 1349.8 | 1358.1 | 1413.6 | 1417.0 | 1540.1 | 1518.9 | 1406.3 | 1455.8 |
| 55°   | 1391.7 | 1397.6 | 1418.0 | 1437.0 | 1520.8 | 1524.3 | 1665.6 | 1633.2 | 1487.7 | 1558.1 |
| 57.5° | 1440.9 | 1432.6 | 1470.9 | 1507.9 | 1622.7 | 1631.7 | 1787.6 | 1743.3 | 1559.8 | 1646.3 |
| 60°   | 1511.6 | 1505.7 | 1535.5 | 1590.3 | 1736.7 | 1751.1 | 1916.8 | 1842.5 | 1612.7 | 1716.2 |
| 62.5° | 1654.8 | 1640.2 | 1644.9 | 1693.3 | 1880.5 | 1899.5 | 2062.5 | 1928.9 | 1639.0 | 1743.5 |
| 65°   | 1869.0 | 1843.9 | 1820.5 | 1854.1 | 2082.9 | 2101.7 | 2226.9 | 1996.9 | 1629.3 | 1690.7 |
| 67.5° | 2138.7 | 2113.9 | 2085.1 | 2116.8 | 2381.2 | 2396.0 | 2429.9 | 2035.2 | 1552.5 | 1487.0 |
| 70°   | 2361.2 | 2351.9 | 2386.3 | 2516.6 | 2857.5 | 2858.0 | 2690.1 | 2003.5 | 1342.2 | 1054.3 |
| 72.5° | 2331.7 | 2326.1 | 2507.1 | 2910.1 | 3457.8 | 3444.9 | 2936.4 | 1763.8 | 904.2  | 475.6  |
| 75°   | 1912.9 | 1949.2 | 2229.6 | 2903.0 | 3673.5 | 3671.8 | 2785.6 | 1121.3 | 374.0  | 197.1  |
| 77.5° | 1025.8 | 1083.3 | 1447.5 | 2143.4 | 2867.7 | 2910.8 | 1958.4 | 392.3  | 160.6  | 126.2  |
| 80°   | 334.5  | 384.7  | 577.0  | 1091.3 | 1863.4 | 1855.4 | 839.4  | 154.0  | 109.9  | 89.4   |
| 82.5° | 142.0  | 147.9  | 257.8  | 515.3  | 956.3  | 941.4  | 267.3  | 88.4   | 77.2   | 61.2   |
| 85°   | 55.6   | 62.1   | 113.8  | 238.3  | 414.2  | 405.2  | 96.5   | 43.9   | 49.5   | 40.0   |
| 87.5° | 18.3   | 22.2   | 40.7   | 81.6   | 128.9  | 124.3  | 23.6   | 15.1   | 21.4   | 18.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P939179  
 CATALOG NUMBER: GALN-SB1C-927-U-T4FT

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 600.6  | 0°    | 600.6  | 600.6  | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 | 600.6 |
| 602.3  | 2.5°  | 605.7  | 609.6  | 614.2 | 621.1 | 626.9 | 631.8 | 636.9 | 640.1 | 641.3 | 644.9 |
| 603.3  | 5°    | 610.1  | 618.6  | 630.1 | 641.3 | 652.2 | 658.8 | 664.7 | 667.6 | 670.3 | 672.2 |
| 605.9  | 7.5°  | 617.4  | 628.4  | 646.4 | 661.0 | 670.3 | 675.6 | 679.5 | 678.6 | 679.5 | 680.0 |
| 608.9  | 10°   | 623.7  | 639.1  | 660.5 | 674.4 | 681.5 | 681.7 | 680.7 | 677.3 | 675.6 | 675.9 |
| 613.3  | 12.5° | 631.3  | 648.3  | 671.5 | 683.2 | 685.1 | 679.8 | 675.6 | 669.8 | 667.6 | 666.6 |
| 619.8  | 15°   | 641.5  | 661.0  | 683.4 | 687.8 | 682.9 | 676.1 | 669.1 | 659.6 | 654.7 | 650.8 |
| 631.0  | 17.5° | 653.9  | 675.4  | 692.7 | 689.5 | 679.0 | 667.8 | 656.4 | 642.0 | 632.0 | 627.9 |
| 646.4  | 20°   | 671.2  | 690.5  | 699.8 | 685.9 | 670.0 | 653.0 | 633.5 | 615.9 | 606.7 | 602.5 |
| 665.9  | 22.5° | 692.2  | 710.7  | 706.6 | 679.5 | 657.1 | 629.8 | 605.5 | 592.5 | 587.9 | 585.0 |
| 691.0  | 25°   | 717.3  | 733.1  | 711.4 | 670.3 | 635.9 | 599.1 | 580.4 | 576.2 | 574.0 | 571.8 |
| 721.7  | 27.5° | 749.9  | 758.5  | 715.1 | 656.6 | 602.8 | 566.5 | 559.7 | 560.4 | 559.7 | 556.0 |
| 764.3  | 30°   | 793.1  | 791.4  | 718.5 | 634.5 | 564.8 | 537.0 | 537.5 | 540.7 | 541.1 | 538.7 |
| 823.8  | 32.5° | 849.8  | 832.5  | 720.2 | 605.7 | 528.5 | 511.2 | 511.7 | 515.1 | 517.5 | 513.4 |
| 901.5  | 35°   | 918.5  | 880.5  | 717.5 | 569.6 | 500.4 | 486.6 | 482.9 | 483.9 | 484.6 | 480.7 |
| 995.8  | 37.5° | 998.7  | 934.4  | 705.6 | 529.7 | 477.3 | 462.4 | 454.6 | 448.1 | 444.2 | 440.5 |
| 1102.5 | 40°   | 1086.7 | 993.1  | 683.7 | 490.7 | 451.5 | 436.9 | 425.2 | 412.7 | 399.6 | 394.7 |
| 1215.6 | 42.5° | 1178.8 | 1053.5 | 657.1 | 453.4 | 421.8 | 409.8 | 397.4 | 379.4 | 359.6 | 349.6 |
| 1333.0 | 45°   | 1274.3 | 1115.4 | 631.0 | 416.6 | 391.3 | 386.2 | 371.8 | 350.1 | 328.7 | 316.0 |
| 1450.7 | 47.5° | 1367.8 | 1173.9 | 592.8 | 379.6 | 362.8 | 368.4 | 357.2 | 337.2 | 313.3 | 293.4 |
| 1567.4 | 50°   | 1457.2 | 1228.7 | 530.2 | 342.1 | 339.6 | 363.0 | 352.3 | 323.6 | 296.3 | 270.7 |
| 1681.9 | 52.5° | 1545.9 | 1273.1 | 450.0 | 308.0 | 327.2 | 361.6 | 346.0 | 314.3 | 280.9 | 254.1 |
| 1789.6 | 55°   | 1621.2 | 1296.0 | 372.8 | 278.7 | 309.2 | 349.1 | 338.4 | 303.3 | 259.2 | 230.7 |
| 1863.4 | 57.5° | 1664.1 | 1277.4 | 308.5 | 250.0 | 284.3 | 328.7 | 325.5 | 279.9 | 233.4 | 211.5 |
| 1877.8 | 60°   | 1645.6 | 1202.4 | 255.8 | 224.9 | 260.7 | 306.5 | 303.1 | 256.8 | 213.7 | 193.0 |
| 1800.8 | 62.5° | 1543.5 | 1059.4 | 214.2 | 203.0 | 239.3 | 283.8 | 280.7 | 239.0 | 198.6 | 178.6 |
| 1596.4 | 65°   | 1337.9 | 861.8  | 181.8 | 184.7 | 217.6 | 256.6 | 261.2 | 224.2 | 186.6 | 167.1 |
| 1235.0 | 67.5° | 1020.4 | 624.2  | 156.4 | 168.8 | 196.4 | 229.8 | 243.2 | 213.4 | 176.6 | 158.1 |
| 714.6  | 70°   | 581.6  | 354.5  | 135.0 | 153.5 | 177.6 | 204.9 | 229.3 | 204.9 | 165.9 | 150.6 |
| 267.8  | 72.5° | 220.5  | 162.8  | 116.7 | 138.1 | 159.6 | 184.0 | 213.9 | 191.5 | 153.5 | 142.0 |
| 138.4  | 75°   | 117.7  | 99.2   | 98.2  | 120.1 | 138.9 | 163.5 | 194.7 | 178.3 | 144.2 | 150.1 |
| 95.8   | 77.5° | 80.2   | 70.2   | 82.1  | 102.8 | 116.2 | 140.8 | 174.2 | 158.4 | 125.0 | 124.5 |
| 66.3   | 80°   | 55.6   | 49.7   | 66.8  | 82.8  | 89.9  | 118.4 | 152.0 | 136.0 | 101.8 | 95.0  |
| 40.9   | 82.5° | 33.4   | 32.4   | 49.9  | 61.9  | 63.6  | 91.4  | 126.0 | 114.0 | 83.3  | 72.6  |
| 24.4   | 85°   | 18.3   | 19.2   | 31.9  | 36.3  | 37.0  | 63.8  | 98.7  | 88.2  | 64.1  | 53.8  |
| 8.8    | 87.5° | 5.1    | 6.6    | 11.7  | 14.4  | 17.8  | 33.1  | 58.7  | 52.4  | 32.2  | 22.4  |
| 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> |
| 600.6       |
| 644.7       |
| 672.7       |
| 680.7       |
| 676.4       |
| 666.1       |
| 652.0       |
| 628.1       |
| 602.1       |
| 585.5       |
| 571.8       |
| 556.7       |
| 539.9       |
| 515.3       |
| 483.4       |
| 442.9       |
| 396.9       |
| 350.9       |
| 315.0       |
| 291.2       |
| 268.5       |
| 251.2       |
| 228.3       |
| 208.6       |
| 190.0       |
| 175.4       |
| 164.0       |
| 155.2       |
| 148.6       |
| 140.1       |
| 155.0       |
| 114.8       |
| 90.9        |
| 73.1        |
| 54.3        |
| 22.4        |
| 0.0         |

F REPORT)