

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: P945709

Luminaire Tested: **GALN-SB1C-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6688 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

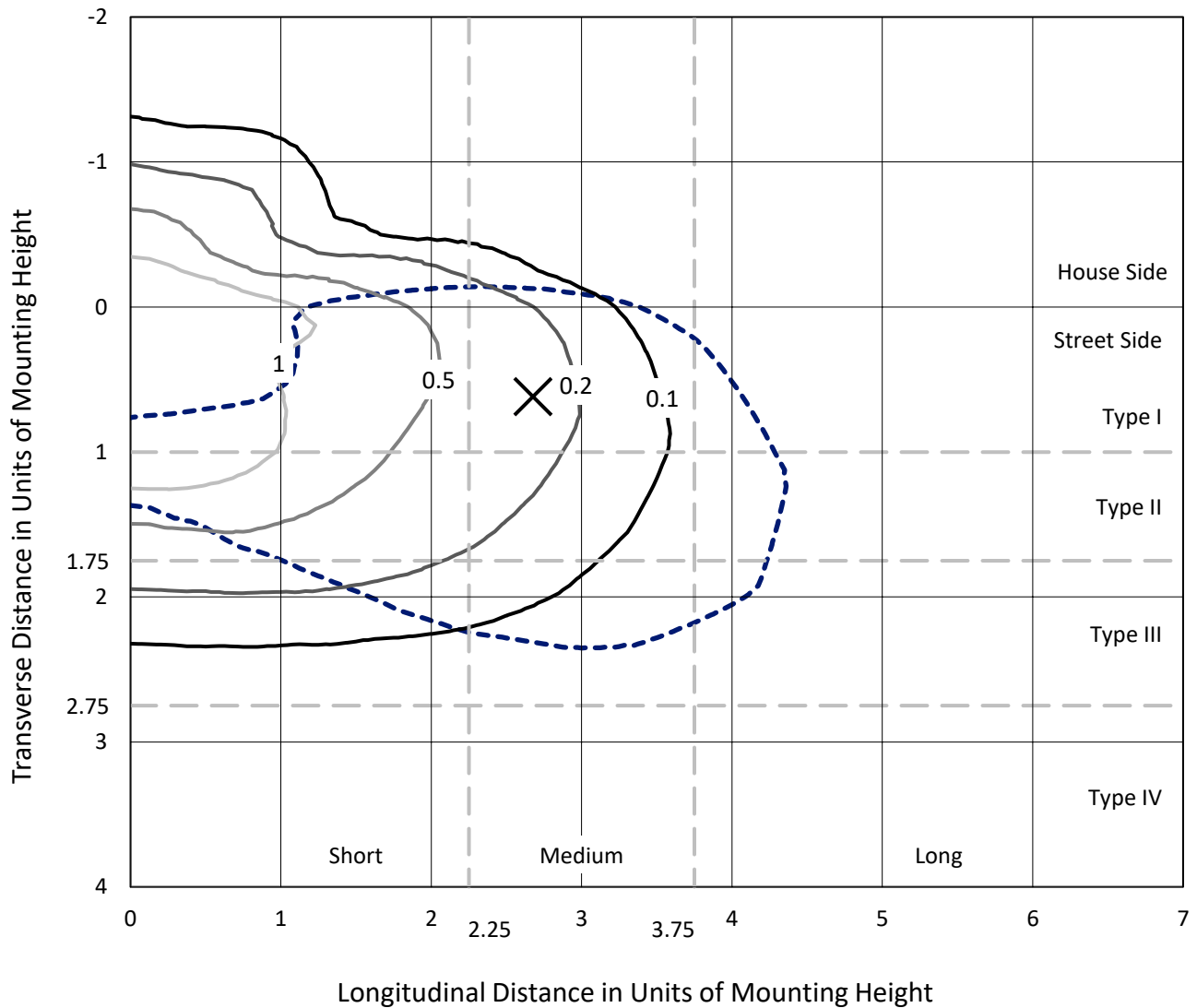
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945709
 CATALOG NUMBER: GALN-SB1C-827-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

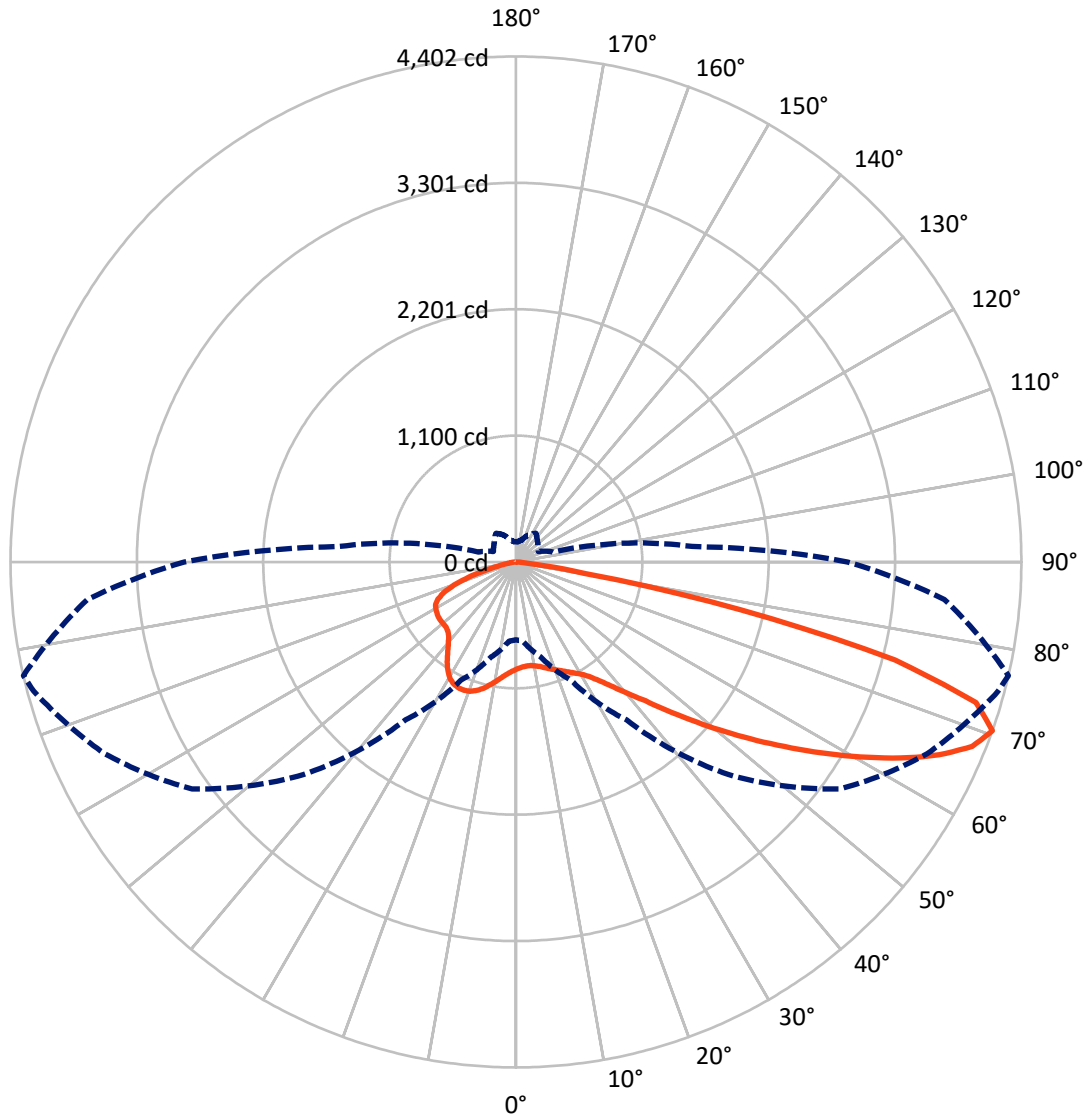
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P945709
CATALOG NUMBER: GALN-SB1C-827-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P945709
 CATALOG NUMBER: GALN-SB1C-827-U-T3R

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1464.6 | 0.0 | 1464.6 |
| | % Fixture | 21.9 | 0.0 | 21.9 |
| Street Side | Lumens | 5223.4 | 0.0 | 5223.4 |
| | % Fixture | 78.1 | 0.0 | 78.1 |
| Total | Lumens | 6688.0 | 0.0 | 6688.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.0 | 1.3 |
| 10°-20° | 256.8 | 3.8 |
| 20°-30° | 439.2 | 6.6 |
| 30°-40° | 706.3 | 10.6 |
| 40°-50° | 1102.7 | 16.5 |
| 50°-60° | 1472.9 | 22.0 |
| 60°-70° | 1569.9 | 23.5 |
| 70°-80° | 966.4 | 14.5 |
| 80°-90° | 84.7 | 1.3 |
| 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° | 6688.0 | 100.0 |
| 0°-180° | 6688.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P945709

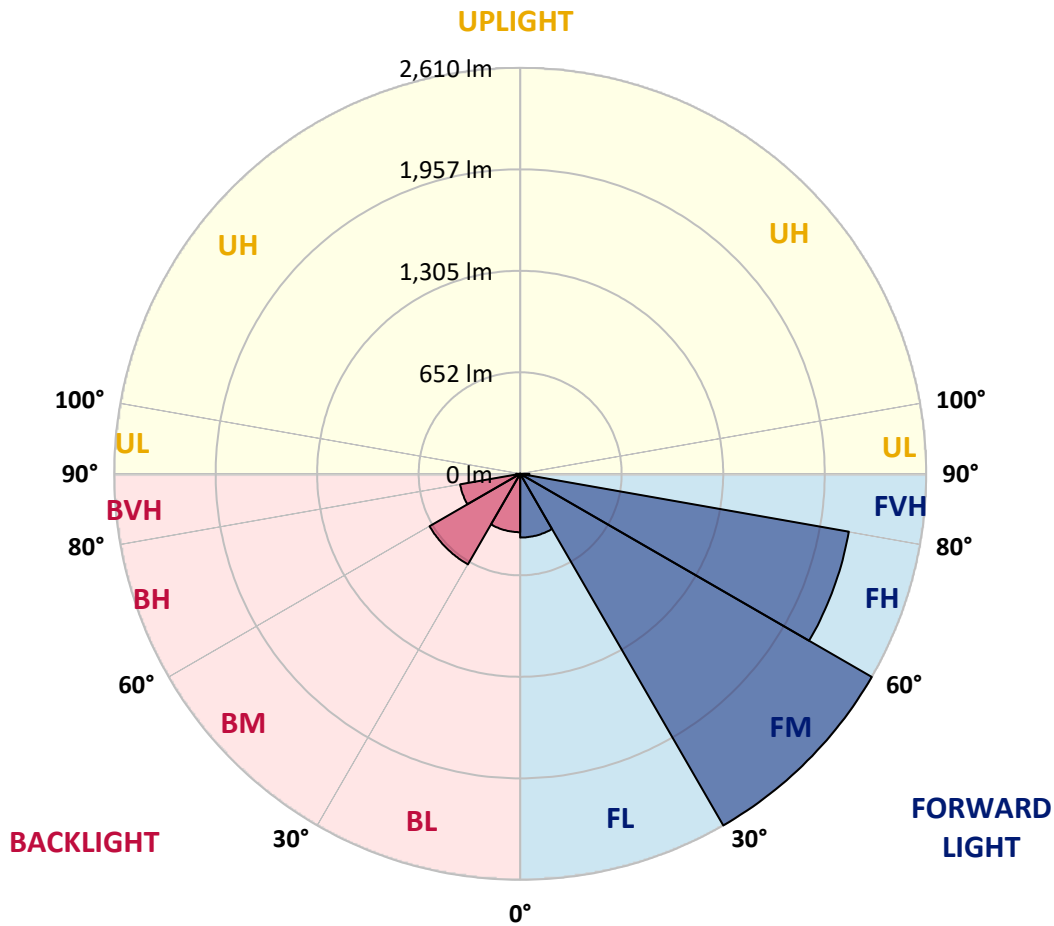
CATALOG NUMBER: GALN-SB1C-827-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 409.8 | 6.1 | | | |
| FM (30°-60°) | 2609.5 | 39.0 | | | |
| FH (60°-80°) | 2145.0 | 32.1 | | | G2/5000 |
| FVH (80°-90°) | 59.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 375.3 | 5.6 | B1/500 | | |
| BM (30°-60°) | 672.4 | 10.1 | B1/1000 | | |
| BH (60°-80°) | 391.4 | 5.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 25.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P945709

CATALOG NUMBER: GALN-SB1C-827-U-T3R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 |
| 2.5° | 860.1 | 859.7 | 864.2 | 865.6 | 873.8 | 879.6 | 890.6 | 902.2 | 917.3 | 919.0 |
| 5° | 810.4 | 810.4 | 815.6 | 821.0 | 831.6 | 843.3 | 860.1 | 880.3 | 906.3 | 910.4 |
| 7.5° | 768.3 | 771.0 | 775.5 | 786.1 | 798.4 | 815.2 | 840.9 | 869.7 | 903.9 | 910.4 |
| 10° | 734.4 | 737.5 | 742.9 | 751.5 | 770.0 | 793.3 | 826.9 | 863.8 | 909.7 | 920.0 |
| 12.5° | 723.8 | 726.8 | 729.9 | 736.4 | 753.6 | 781.0 | 821.0 | 866.6 | 923.8 | 934.1 |
| 15° | 748.4 | 752.2 | 749.8 | 748.1 | 757.0 | 782.0 | 823.8 | 876.5 | 941.3 | 956.0 |
| 17.5° | 805.3 | 806.6 | 801.2 | 785.1 | 783.7 | 797.1 | 836.8 | 890.2 | 963.2 | 979.3 |
| 20° | 897.1 | 894.7 | 883.4 | 851.5 | 833.4 | 830.6 | 859.1 | 910.8 | 985.8 | 1002.9 |
| 22.5° | 1021.8 | 1019.0 | 996.4 | 946.1 | 905.6 | 878.9 | 891.2 | 937.5 | 1011.1 | 1030.3 |
| 25° | 1177.3 | 1173.5 | 1140.3 | 1071.8 | 1009.1 | 943.0 | 935.1 | 972.8 | 1042.3 | 1060.1 |
| 27.5° | 1358.8 | 1355.7 | 1319.7 | 1229.3 | 1138.9 | 1030.7 | 989.6 | 1014.2 | 1074.8 | 1095.1 |
| 30° | 1554.0 | 1562.9 | 1499.2 | 1402.0 | 1287.5 | 1145.1 | 1062.9 | 1065.3 | 1117.0 | 1135.1 |
| 32.5° | 1783.5 | 1798.9 | 1722.2 | 1598.9 | 1442.7 | 1269.4 | 1155.3 | 1136.5 | 1178.3 | 1193.4 |
| 35° | 2011.0 | 2028.4 | 1964.7 | 1828.4 | 1648.6 | 1416.0 | 1251.9 | 1218.4 | 1259.8 | 1276.2 |
| 37.5° | 2207.6 | 2230.9 | 2198.0 | 2079.5 | 1868.8 | 1592.7 | 1378.0 | 1314.6 | 1360.2 | 1380.7 |
| 40° | 2362.7 | 2398.4 | 2396.0 | 2322.0 | 2128.4 | 1807.2 | 1537.9 | 1433.5 | 1484.8 | 1507.1 |
| 42.5° | 2488.8 | 2519.6 | 2546.3 | 2542.6 | 2399.4 | 2050.7 | 1726.0 | 1587.9 | 1627.0 | 1652.7 |
| 45° | 2575.8 | 2608.7 | 2666.2 | 2728.2 | 2660.0 | 2311.4 | 1941.4 | 1771.2 | 1806.8 | 1845.5 |
| 47.5° | 2653.5 | 2690.9 | 2765.5 | 2863.8 | 2881.3 | 2573.0 | 2177.4 | 1984.6 | 2017.1 | 2057.2 |
| 50° | 2660.4 | 2692.6 | 2808.4 | 2947.8 | 3038.5 | 2824.5 | 2430.9 | 2224.0 | 2254.5 | 2297.3 |
| 52.5° | 2494.9 | 2545.6 | 2747.7 | 2945.4 | 3110.8 | 3034.8 | 2682.7 | 2473.0 | 2507.3 | 2558.7 |
| 55° | 1936.6 | 2011.0 | 2570.0 | 2853.6 | 3085.1 | 3170.8 | 2922.1 | 2737.8 | 2781.6 | 2835.4 |
| 57.5° | 1668.1 | 1700.6 | 2040.1 | 2686.4 | 2968.0 | 3206.0 | 3124.2 | 3005.3 | 3075.9 | 3134.8 |
| 60° | 1499.2 | 1526.3 | 1727.0 | 2426.4 | 2813.8 | 3150.2 | 3280.4 | 3254.7 | 3376.6 | 3446.8 |
| 62.5° | 1318.4 | 1344.1 | 1526.6 | 2026.0 | 2616.5 | 3057.4 | 3379.0 | 3484.8 | 3684.9 | 3761.6 |
| 65° | 1138.9 | 1160.8 | 1335.8 | 1702.3 | 2365.8 | 2964.6 | 3430.0 | 3683.9 | 3970.2 | 4049.7 |
| 67.5° | 938.9 | 957.0 | 1122.5 | 1436.2 | 2061.0 | 2837.5 | 3455.4 | 3840.4 | 4218.5 | 4286.7 |
| 70° | 677.5 | 691.6 | 862.5 | 1135.8 | 1678.4 | 2618.9 | 3445.1 | 3951.4 | 4347.3 | 4401.8 |
| 72.5° | 320.3 | 332.9 | 533.7 | 737.5 | 1185.5 | 2193.5 | 3237.2 | 3863.3 | 4216.5 | 4189.4 |
| 75° | 170.9 | 181.9 | 306.6 | 404.5 | 626.1 | 1503.7 | 2649.1 | 3328.0 | 3540.7 | 3409.1 |
| 77.5° | 115.8 | 124.3 | 189.8 | 242.8 | 286.0 | 713.8 | 1702.7 | 2304.2 | 2216.8 | 1999.7 |
| 80° | 91.8 | 100.7 | 155.5 | 164.4 | 138.4 | 257.9 | 703.5 | 1066.6 | 766.2 | 612.8 |
| 82.5° | 70.6 | 80.5 | 130.8 | 119.2 | 75.4 | 105.8 | 204.8 | 337.4 | 196.3 | 149.3 |
| 85° | 43.2 | 53.8 | 102.8 | 76.0 | 42.5 | 48.3 | 69.5 | 93.9 | 59.9 | 50.0 |
| 87.5° | 21.9 | 30.8 | 52.1 | 27.7 | 19.2 | 11.3 | 18.5 | 18.5 | 15.8 | 13.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945709
 CATALOG NUMBER: GALN-SB1C-827-U-T3R

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 933.0 | 0° | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 | 933.0 |
| 928.2 | 2.5° | 936.5 | 943.3 | 955.0 | 965.9 | 974.5 | 982.7 | 990.9 | 995.4 | 996.7 | 1002.2 |
| 933.4 | 5° | 947.4 | 960.1 | 982.7 | 1003.9 | 1017.3 | 1025.5 | 1031.3 | 1034.8 | 1035.5 | 1037.2 |
| 947.4 | 7.5° | 967.6 | 987.8 | 1019.4 | 1040.6 | 1050.5 | 1049.8 | 1047.4 | 1038.9 | 1035.5 | 1032.4 |
| 968.0 | 10° | 996.1 | 1022.8 | 1061.5 | 1076.2 | 1070.0 | 1053.6 | 1032.4 | 1007.4 | 995.7 | 984.4 |
| 996.1 | 12.5° | 1031.3 | 1065.3 | 1103.3 | 1102.6 | 1072.1 | 1030.0 | 980.6 | 942.3 | 918.0 | 900.5 |
| 1030.7 | 15° | 1074.2 | 1113.2 | 1142.3 | 1119.0 | 1052.2 | 976.5 | 904.3 | 854.3 | 832.3 | 813.2 |
| 1065.6 | 17.5° | 1118.3 | 1160.1 | 1173.5 | 1113.9 | 1002.2 | 897.4 | 815.6 | 776.2 | 754.6 | 744.3 |
| 1103.3 | 20° | 1161.5 | 1202.9 | 1192.0 | 1084.4 | 926.2 | 807.7 | 734.7 | 713.1 | 708.7 | 711.1 |
| 1139.9 | 22.5° | 1207.1 | 1244.0 | 1195.8 | 1027.6 | 829.3 | 715.9 | 675.8 | 676.5 | 686.4 | 693.6 |
| 1178.3 | 25° | 1253.6 | 1278.6 | 1185.8 | 945.4 | 725.1 | 648.4 | 638.5 | 649.4 | 669.0 | 683.0 |
| 1221.4 | 27.5° | 1298.5 | 1309.5 | 1164.2 | 843.6 | 635.7 | 600.1 | 601.8 | 624.4 | 653.9 | 673.4 |
| 1273.8 | 30° | 1349.2 | 1336.9 | 1122.8 | 729.2 | 573.7 | 558.7 | 573.0 | 599.4 | 628.9 | 646.3 |
| 1340.0 | 32.5° | 1406.4 | 1360.5 | 1057.0 | 623.4 | 529.9 | 525.4 | 549.1 | 566.2 | 579.2 | 584.3 |
| 1427.6 | 35° | 1477.7 | 1393.7 | 972.8 | 549.1 | 490.5 | 501.1 | 523.7 | 515.2 | 510.0 | 507.3 |
| 1545.5 | 37.5° | 1570.1 | 1438.6 | 874.1 | 500.8 | 458.6 | 483.6 | 492.9 | 466.2 | 446.0 | 436.0 |
| 1688.3 | 40° | 1681.5 | 1504.4 | 779.2 | 463.4 | 438.4 | 468.6 | 452.5 | 420.3 | 394.6 | 380.5 |
| 1848.9 | 42.5° | 1805.1 | 1573.2 | 699.4 | 435.3 | 427.1 | 456.2 | 422.7 | 384.3 | 342.9 | 338.4 |
| 2040.4 | 45° | 1934.9 | 1644.1 | 645.0 | 413.8 | 421.6 | 445.6 | 405.5 | 343.6 | 314.1 | 332.2 |
| 2232.6 | 47.5° | 2064.7 | 1709.2 | 612.1 | 397.7 | 418.9 | 433.6 | 390.5 | 320.9 | 300.1 | 326.4 |
| 2438.4 | 50° | 2209.3 | 1767.4 | 597.4 | 386.0 | 415.8 | 428.8 | 367.9 | 315.1 | 285.3 | 302.8 |
| 2651.5 | 52.5° | 2352.8 | 1812.6 | 586.4 | 374.4 | 411.4 | 425.1 | 356.9 | 308.3 | 267.5 | 268.5 |
| 2865.9 | 55° | 2496.0 | 1842.1 | 574.4 | 359.0 | 401.4 | 416.9 | 355.9 | 300.7 | 254.2 | 249.4 |
| 3092.7 | 57.5° | 2648.7 | 1858.9 | 559.7 | 341.8 | 384.3 | 396.0 | 354.9 | 294.9 | 250.0 | 242.2 |
| 3324.5 | 60° | 2804.2 | 1883.5 | 540.5 | 320.9 | 361.4 | 371.0 | 352.5 | 292.9 | 247.6 | 234.3 |
| 3543.1 | 62.5° | 2943.7 | 1892.1 | 517.6 | 301.1 | 331.9 | 346.3 | 347.3 | 291.1 | 241.1 | 218.2 |
| 3724.6 | 65° | 3035.1 | 1855.1 | 477.5 | 278.5 | 300.1 | 320.9 | 337.4 | 285.3 | 229.5 | 206.5 |
| 3814.4 | 67.5° | 3031.3 | 1749.6 | 414.8 | 249.4 | 269.2 | 292.9 | 323.0 | 275.4 | 215.4 | 192.2 |
| 3746.5 | 70° | 2890.2 | 1541.4 | 335.3 | 215.4 | 235.3 | 262.7 | 304.5 | 260.7 | 198.7 | 176.4 |
| 3331.4 | 72.5° | 2478.9 | 1206.4 | 243.5 | 175.7 | 195.9 | 231.5 | 280.5 | 242.8 | 181.5 | 162.4 |
| 2462.1 | 75° | 1770.9 | 763.5 | 165.1 | 135.0 | 152.4 | 196.3 | 250.7 | 222.0 | 165.8 | 163.0 |
| 1233.1 | 77.5° | 904.6 | 364.8 | 109.3 | 98.6 | 106.2 | 154.8 | 210.7 | 198.3 | 168.2 | 134.6 |
| 350.7 | 80° | 294.2 | 134.6 | 68.8 | 67.1 | 70.6 | 103.1 | 163.0 | 162.7 | 127.4 | 91.5 |
| 84.9 | 82.5° | 93.9 | 57.9 | 44.9 | 43.2 | 41.4 | 64.7 | 113.7 | 128.8 | 86.0 | 57.9 |
| 30.5 | 85° | 37.3 | 34.6 | 26.4 | 24.3 | 17.5 | 30.5 | 59.6 | 85.6 | 64.1 | 41.8 |
| 7.9 | 87.5° | 13.7 | 13.7 | 7.2 | 5.1 | 3.8 | 10.3 | 16.1 | 25.7 | 36.7 | 21.6 |
| 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> |
| 933.0 |
| 1005.3 |
| 1039.9 |
| 1033.1 |
| 981.0 |
| 896.4 |
| 811.1 |
| 747.4 |
| 710.1 |
| 695.3 |
| 686.8 |
| 678.2 |
| 650.5 |
| 587.1 |
| 510.0 |
| 438.4 |
| 381.6 |
| 342.9 |
| 341.8 |
| 338.8 |
| 315.8 |
| 275.7 |
| 252.8 |
| 243.2 |
| 235.3 |
| 218.2 |
| 206.5 |
| 193.2 |
| 178.5 |
| 161.3 |
| 153.8 |
| 119.9 |
| 80.8 |
| 57.5 |
| 42.8 |
| 21.2 |
| 0.0 |

F REPORT)