

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: STREETWORKS

Report Number: P846105

Luminaire Tested: **GLAN-SB1C-827-U-T2-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P846105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB1C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4362 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

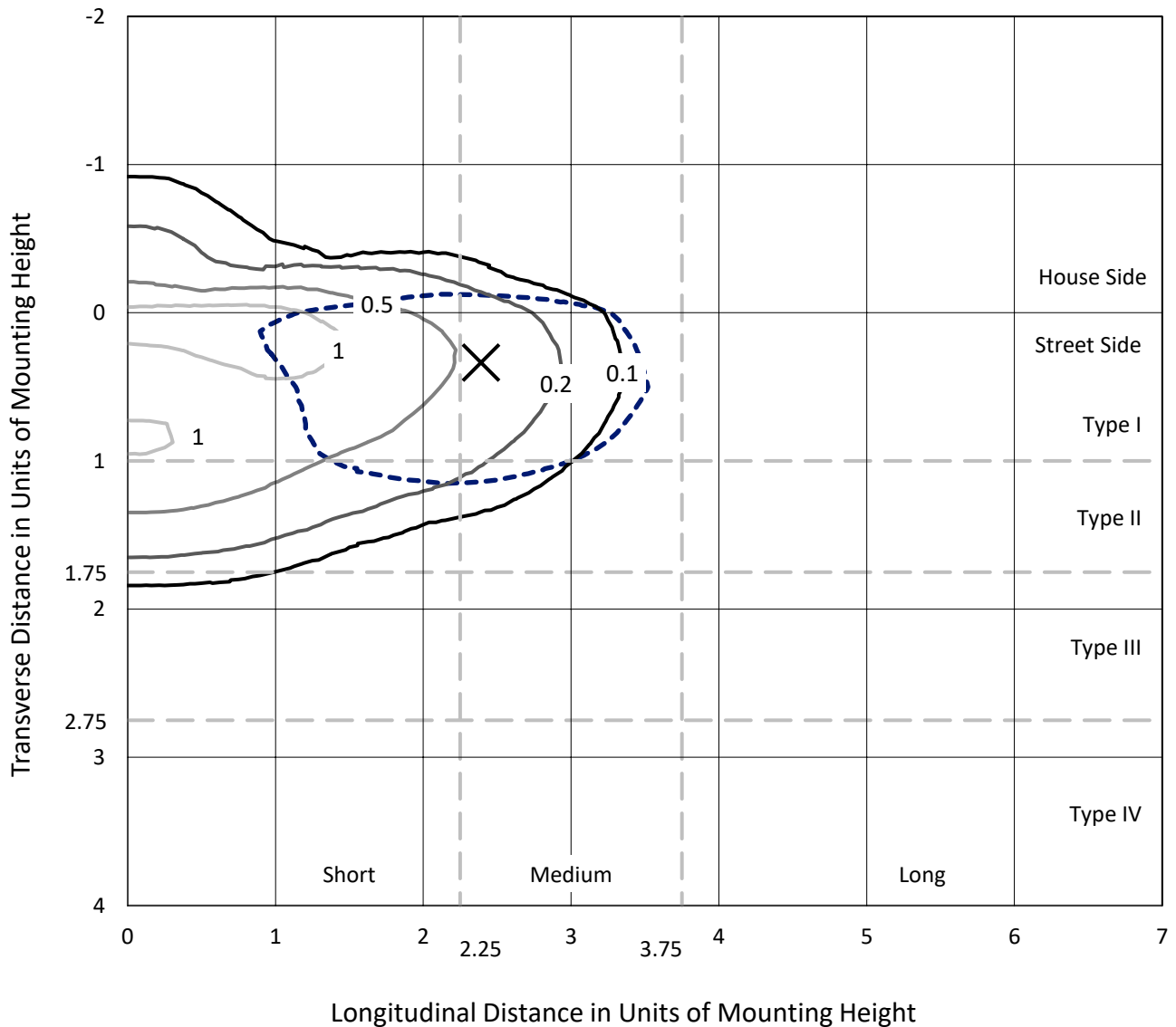
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P846105
 CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

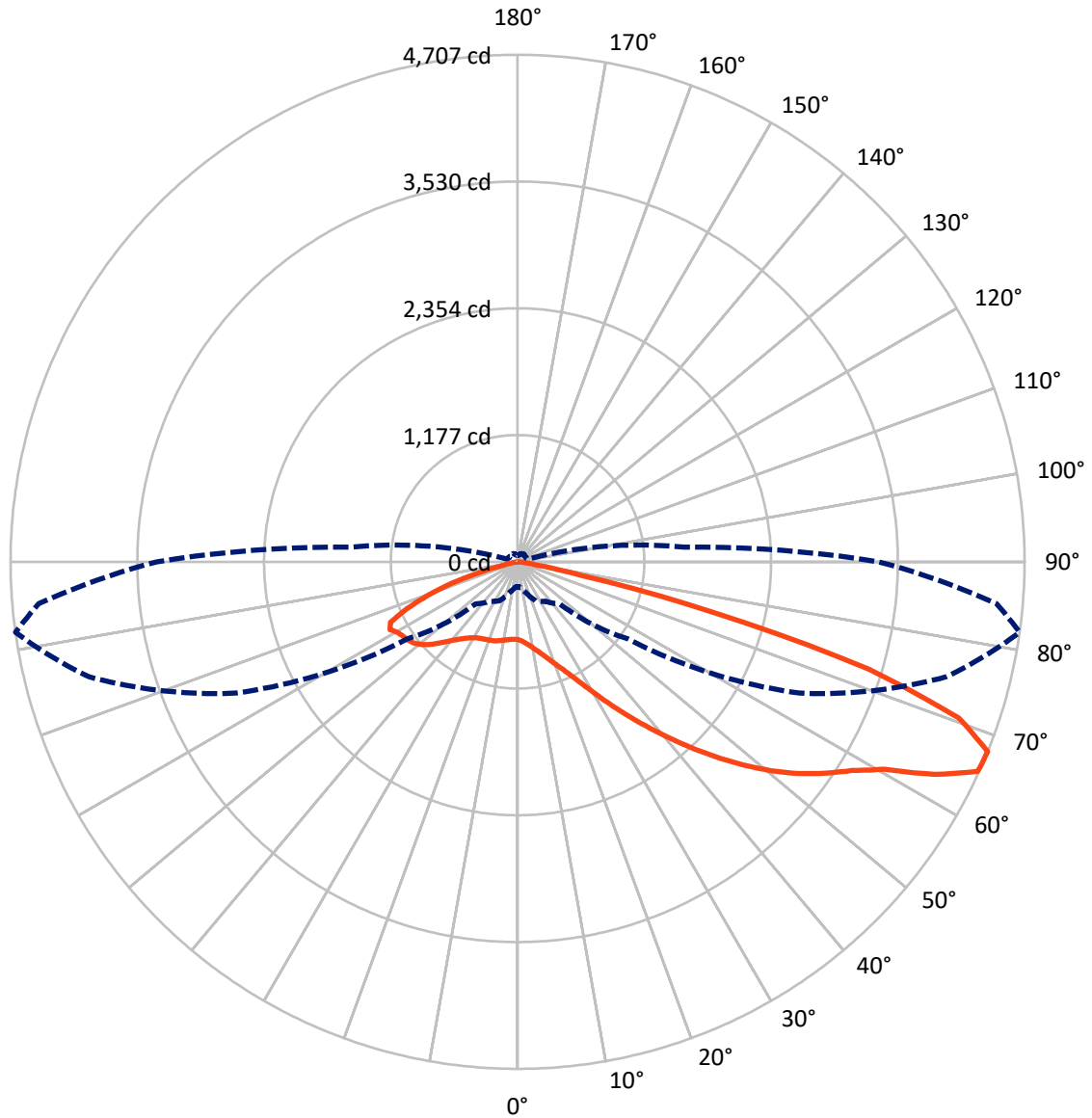
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P846105
CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P846105
 CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 790.1 | 0.0 | 790.1 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 3571.9 | 0.0 | 3571.9 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 4362.0 | 0.0 | 4362.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.4 | 1.5 |
| 10°-20° | 167.3 | 3.8 |
| 20°-30° | 268.0 | 6.1 |
| 30°-40° | 473.8 | 10.9 |
| 40°-50° | 830.2 | 19.0 |
| 50°-60° | 1107.3 | 25.4 |
| 60°-70° | 1030.8 | 23.6 |
| 70°-80° | 395.6 | 9.1 |
| 80°-90° | 24.6 | 0.6 |
| 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° | 4362.0 | 100.0 |
| 0°-180° | 4362.0 | 100.0 |

Coefficient of Utilization



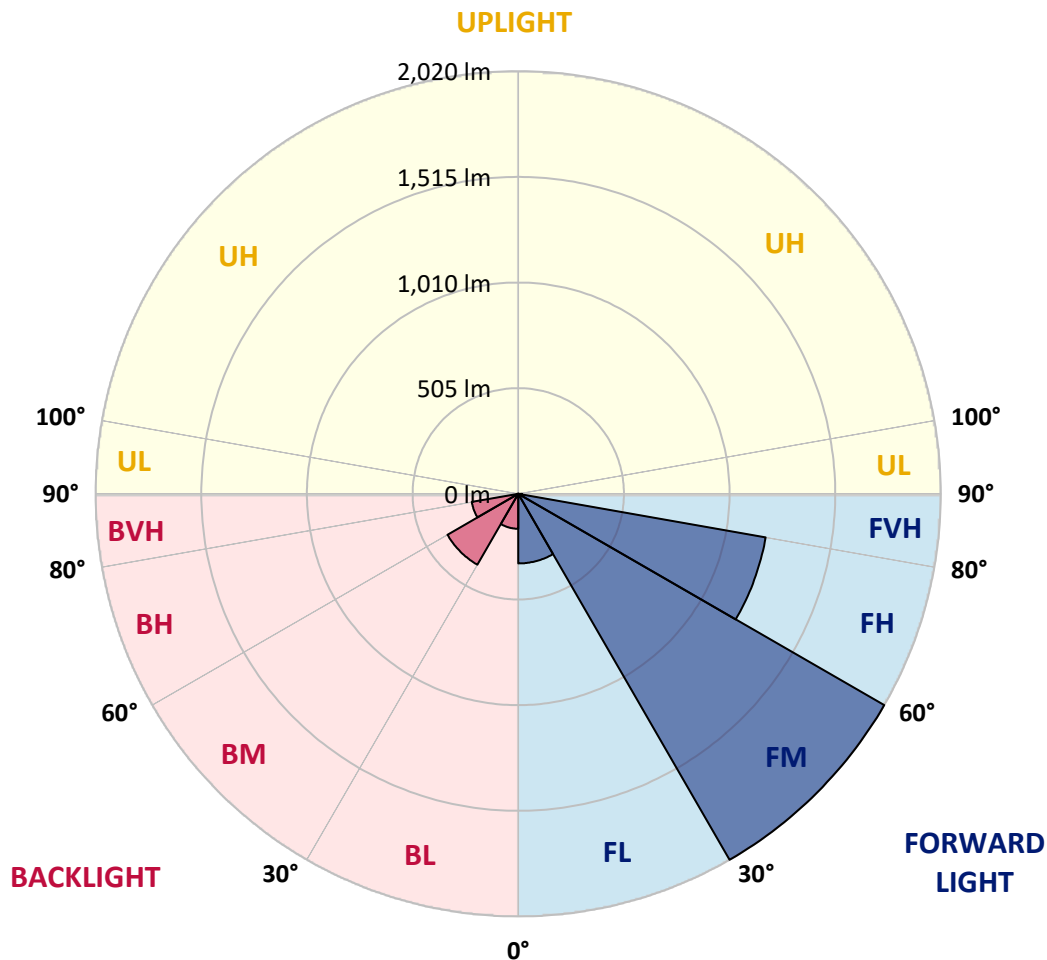
REPORT NUMBER: P846105
 CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 332.8 | 7.6 | | | |
| FM (30°-60°) | 2020.3 | 46.3 | | | |
| FH (60°-80°) | 1200.9 | 27.5 | | | G1/1800 |
| FVH (80°-90°) | 17.9 | 0.4 | | | G1/100 |
| BL (0°-30°) | 166.9 | 3.8 | B1/500 | | |
| BM (30°-60°) | 391.0 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 225.5 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.7 | 0.2 | | | 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 II Medium



REPORT NUMBER: P846105
 CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 82° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 |
| 2.5° | 763.8 | 768.2 | 765.7 | 764.4 | 762.2 | 759.1 | 756.6 | 748.7 | 740.5 | 735.2 |
| 5° | 779.2 | 783.6 | 783.2 | 784.5 | 786.1 | 787.0 | 786.4 | 777.6 | 766.0 | 756.9 |
| 7.5° | 766.0 | 771.0 | 775.1 | 781.4 | 792.4 | 804.0 | 809.6 | 807.7 | 795.8 | 783.2 |
| 10° | 728.6 | 733.9 | 743.7 | 758.4 | 781.7 | 806.8 | 827.8 | 837.6 | 830.0 | 816.2 |
| 12.5° | 660.1 | 665.5 | 684.6 | 716.7 | 755.6 | 799.3 | 839.5 | 865.5 | 867.4 | 853.6 |
| 15° | 583.2 | 588.5 | 608.9 | 649.1 | 708.5 | 778.5 | 845.7 | 895.1 | 911.7 | 899.8 |
| 17.5° | 535.5 | 540.2 | 555.6 | 587.9 | 649.8 | 737.1 | 843.5 | 926.5 | 964.5 | 955.0 |
| 20° | 521.0 | 525.1 | 532.3 | 554.9 | 606.4 | 694.1 | 829.1 | 956.0 | 1021.3 | 1016.0 |
| 22.5° | 536.4 | 540.2 | 542.4 | 552.4 | 584.8 | 665.8 | 810.9 | 986.1 | 1087.3 | 1087.9 |
| 25° | 571.9 | 575.7 | 573.1 | 579.4 | 593.6 | 657.0 | 804.0 | 1021.6 | 1170.2 | 1177.1 |
| 27.5° | 630.3 | 630.6 | 624.7 | 624.3 | 626.5 | 670.2 | 811.2 | 1059.6 | 1274.7 | 1287.6 |
| 30° | 747.4 | 742.7 | 719.8 | 695.0 | 683.7 | 709.8 | 831.3 | 1104.5 | 1398.2 | 1421.1 |
| 32.5° | 928.0 | 921.1 | 879.0 | 819.7 | 760.0 | 773.5 | 867.4 | 1155.7 | 1532.6 | 1574.0 |
| 35° | 1124.0 | 1122.1 | 1078.1 | 989.9 | 885.6 | 864.3 | 926.1 | 1222.9 | 1679.2 | 1745.2 |
| 37.5° | 1306.1 | 1305.2 | 1280.1 | 1176.1 | 1049.3 | 990.8 | 1020.4 | 1310.9 | 1836.3 | 1931.7 |
| 40° | 1472.6 | 1475.4 | 1450.3 | 1357.3 | 1229.5 | 1153.2 | 1148.5 | 1419.5 | 2010.9 | 2134.9 |
| 42.5° | 1616.4 | 1619.6 | 1594.1 | 1525.4 | 1407.6 | 1332.8 | 1305.8 | 1552.7 | 2181.4 | 2353.2 |
| 45° | 1714.1 | 1733.6 | 1729.8 | 1674.8 | 1590.4 | 1512.8 | 1494.9 | 1719.8 | 2375.8 | 2584.7 |
| 47.5° | 1741.7 | 1759.6 | 1787.9 | 1795.4 | 1743.9 | 1667.6 | 1689.0 | 1921.1 | 2572.4 | 2816.4 |
| 50° | 1673.6 | 1690.2 | 1749.0 | 1827.2 | 1863.0 | 1839.4 | 1877.7 | 2136.8 | 2773.7 | 3047.6 |
| 52.5° | 1539.2 | 1556.1 | 1630.2 | 1754.0 | 1900.0 | 1974.1 | 2067.1 | 2349.4 | 2968.7 | 3266.5 |
| 55° | 1344.8 | 1362.7 | 1457.8 | 1597.9 | 1829.4 | 2029.7 | 2225.1 | 2561.7 | 3147.4 | 3463.4 |
| 57.5° | 1080.3 | 1093.5 | 1192.5 | 1388.4 | 1651.6 | 1974.5 | 2341.6 | 2793.5 | 3315.8 | 3656.8 |
| 60° | 704.1 | 715.7 | 830.7 | 1049.3 | 1357.0 | 1789.8 | 2364.8 | 3052.0 | 3539.4 | 3908.4 |
| 62.5° | 468.3 | 476.1 | 544.3 | 704.7 | 955.7 | 1435.2 | 2228.8 | 3258.3 | 3867.2 | 4346.2 |
| 65° | 321.3 | 329.1 | 397.3 | 509.1 | 617.4 | 949.4 | 1837.8 | 3231.0 | 4164.3 | 4693.8 |
| 67.5° | 229.3 | 235.9 | 293.6 | 399.2 | 446.9 | 551.5 | 1245.8 | 2881.7 | 4121.6 | 4707.0 |
| 70° | 164.2 | 168.0 | 215.8 | 310.9 | 355.2 | 331.3 | 692.8 | 2204.0 | 3608.8 | 4346.5 |
| 72.5° | 114.9 | 116.2 | 149.8 | 236.8 | 286.1 | 241.8 | 329.8 | 1469.5 | 2729.4 | 3411.6 |
| 75° | 77.9 | 79.5 | 100.8 | 173.7 | 229.6 | 184.7 | 174.6 | 788.0 | 1602.3 | 1888.4 |
| 77.5° | 47.7 | 48.4 | 65.0 | 118.7 | 171.8 | 140.7 | 112.4 | 333.8 | 619.9 | 608.6 |
| 80° | 27.0 | 27.0 | 41.5 | 73.8 | 117.1 | 90.8 | 78.8 | 142.0 | 196.3 | 172.4 |
| 82.5° | 15.1 | 15.4 | 30.1 | 45.9 | 77.6 | 53.7 | 43.3 | 65.6 | 84.8 | 75.1 |
| 85° | 6.3 | 6.9 | 18.5 | 21.7 | 37.1 | 26.7 | 17.6 | 27.6 | 31.4 | 28.0 |
| 87.5° | 0.6 | 0.9 | 5.7 | 4.1 | 4.4 | 5.3 | 2.5 | 5.3 | 4.4 | 4.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P846105
 CATALOG NUMBER: GLAN-SB1C-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 722.6 | 0° | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 | 722.6 |
| 733.3 | 2.5° | 727.3 | 722.6 | 710.7 | 696.9 | 678.7 | 669.9 | 657.9 | 649.8 | 642.9 | 643.5 |
| 751.5 | 5° | 741.5 | 729.5 | 702.9 | 669.6 | 628.1 | 598.6 | 567.2 | 545.5 | 527.9 | 524.2 |
| 776.7 | 7.5° | 761.0 | 742.1 | 695.3 | 635.3 | 565.3 | 512.2 | 464.8 | 434.3 | 412.7 | 405.8 |
| 807.1 | 10° | 786.1 | 758.8 | 685.6 | 592.3 | 491.5 | 424.0 | 373.1 | 349.2 | 334.5 | 329.4 |
| 842.9 | 12.5° | 815.3 | 777.9 | 672.7 | 539.9 | 415.5 | 350.5 | 318.1 | 306.2 | 301.5 | 299.9 |
| 886.9 | 15° | 852.0 | 801.8 | 653.2 | 477.7 | 351.1 | 305.6 | 291.8 | 290.2 | 290.8 | 290.2 |
| 939.6 | 17.5° | 895.7 | 827.8 | 621.5 | 413.6 | 307.8 | 282.6 | 277.6 | 278.9 | 280.4 | 280.1 |
| 998.7 | 20° | 943.4 | 853.6 | 581.0 | 356.8 | 278.3 | 266.3 | 263.5 | 264.7 | 266.0 | 265.4 |
| 1066.8 | 22.5° | 997.7 | 881.2 | 536.1 | 312.5 | 258.5 | 251.2 | 248.1 | 248.4 | 248.4 | 247.2 |
| 1153.2 | 25° | 1062.8 | 911.7 | 489.0 | 281.1 | 243.4 | 237.7 | 234.0 | 232.7 | 230.8 | 227.1 |
| 1258.1 | 27.5° | 1140.3 | 944.0 | 443.8 | 259.1 | 231.5 | 226.1 | 221.7 | 218.6 | 213.9 | 207.6 |
| 1384.0 | 30° | 1227.6 | 983.3 | 405.4 | 245.3 | 222.0 | 216.7 | 211.7 | 207.0 | 200.1 | 192.2 |
| 1528.8 | 32.5° | 1330.3 | 1025.4 | 377.5 | 236.2 | 213.6 | 207.9 | 201.9 | 196.3 | 188.7 | 180.9 |
| 1691.5 | 35° | 1452.8 | 1076.3 | 361.2 | 229.9 | 207.0 | 199.4 | 192.8 | 186.5 | 180.9 | 174.0 |
| 1868.3 | 37.5° | 1585.7 | 1130.3 | 356.1 | 226.7 | 202.6 | 190.9 | 183.4 | 179.0 | 178.4 | 174.3 |
| 2059.6 | 40° | 1731.1 | 1194.3 | 359.9 | 224.9 | 197.9 | 182.8 | 174.6 | 173.7 | 175.2 | 168.0 |
| 2264.0 | 42.5° | 1884.9 | 1270.3 | 366.2 | 222.7 | 191.3 | 174.6 | 166.8 | 166.8 | 165.5 | 155.5 |
| 2480.1 | 45° | 2051.4 | 1358.0 | 372.5 | 217.3 | 183.4 | 166.4 | 160.5 | 158.3 | 152.9 | 143.2 |
| 2697.4 | 47.5° | 2219.1 | 1447.2 | 377.2 | 207.6 | 174.0 | 159.5 | 154.2 | 149.2 | 141.3 | 132.5 |
| 2910.6 | 50° | 2378.3 | 1527.2 | 372.2 | 193.1 | 163.3 | 152.9 | 147.3 | 140.4 | 131.9 | 125.9 |
| 3112.6 | 52.5° | 2520.6 | 1596.6 | 350.8 | 176.2 | 152.0 | 146.0 | 141.0 | 133.8 | 126.9 | 120.6 |
| 3294.7 | 55° | 2644.3 | 1652.9 | 313.1 | 160.2 | 142.0 | 140.1 | 135.0 | 125.9 | 116.5 | 111.2 |
| 3475.3 | 57.5° | 2763.0 | 1695.6 | 266.0 | 147.0 | 132.8 | 133.5 | 125.9 | 117.8 | 109.0 | 103.3 |
| 3718.7 | 60° | 2921.0 | 1752.7 | 218.3 | 134.7 | 123.1 | 125.0 | 116.8 | 110.9 | 99.9 | 92.6 |
| 4136.1 | 62.5° | 3173.5 | 1841.6 | 173.4 | 119.7 | 111.8 | 112.4 | 109.0 | 101.8 | 88.6 | 80.1 |
| 4445.4 | 65° | 3373.9 | 1808.9 | 136.6 | 103.3 | 98.9 | 99.9 | 99.9 | 92.0 | 77.9 | 68.1 |
| 4462.1 | 67.5° | 3351.3 | 1548.9 | 109.0 | 87.3 | 86.7 | 87.3 | 89.5 | 82.9 | 69.1 | 61.2 |
| 4122.3 | 70° | 3087.1 | 1232.0 | 87.3 | 72.5 | 75.4 | 73.8 | 80.1 | 75.7 | 62.2 | 54.3 |
| 3195.8 | 72.5° | 2519.0 | 887.5 | 66.6 | 60.0 | 57.8 | 60.3 | 72.2 | 68.1 | 51.8 | 43.0 |
| 1692.7 | 75° | 1472.0 | 473.6 | 49.6 | 47.4 | 41.8 | 50.2 | 64.1 | 58.1 | 39.6 | 31.7 |
| 518.8 | 77.5° | 479.2 | 165.2 | 36.4 | 34.9 | 31.1 | 40.5 | 54.6 | 49.0 | 32.3 | 25.1 |
| 152.0 | 80° | 128.4 | 49.9 | 24.8 | 22.9 | 20.1 | 30.1 | 43.3 | 38.9 | 23.2 | 16.3 |
| 65.3 | 82.5° | 51.5 | 21.0 | 14.4 | 12.9 | 11.0 | 20.7 | 34.2 | 31.4 | 17.3 | 10.4 |
| 20.4 | 85° | 16.6 | 6.9 | 5.3 | 4.1 | 5.0 | 12.9 | 20.4 | 21.4 | 12.2 | 5.3 |
| 3.1 | 87.5° | 2.2 | 0.9 | 0.9 | 1.3 | 0.9 | 2.2 | 6.3 | 6.0 | 3.5 | 0.6 |
| 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

| |
|-------|
| 180° |
| <hr/> |
| 722.6 |
| 637.2 |
| 515.7 |
| 398.8 |
| 325.7 |
| 299.0 |
| 289.9 |
| 279.5 |
| 265.1 |
| 246.5 |
| 226.4 |
| 207.0 |
| 191.6 |
| 181.2 |
| 173.4 |
| 174.0 |
| 168.3 |
| 155.5 |
| 142.9 |
| 132.2 |
| 125.0 |
| 120.0 |
| 110.5 |
| 102.7 |
| 91.7 |
| 79.5 |
| 67.2 |
| 60.0 |
| 53.4 |
| 42.1 |
| 30.8 |
| 24.2 |
| 16.0 |
| 10.4 |
| 4.1 |
| 0.0 |
| 0.0 |

F REPORT)