

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: P946065

Luminaire Tested: **GALN-SB1D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946065
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-SB1D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA 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: 7369 lumens
Efficiency: N/A
Efficacy: 92.6 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

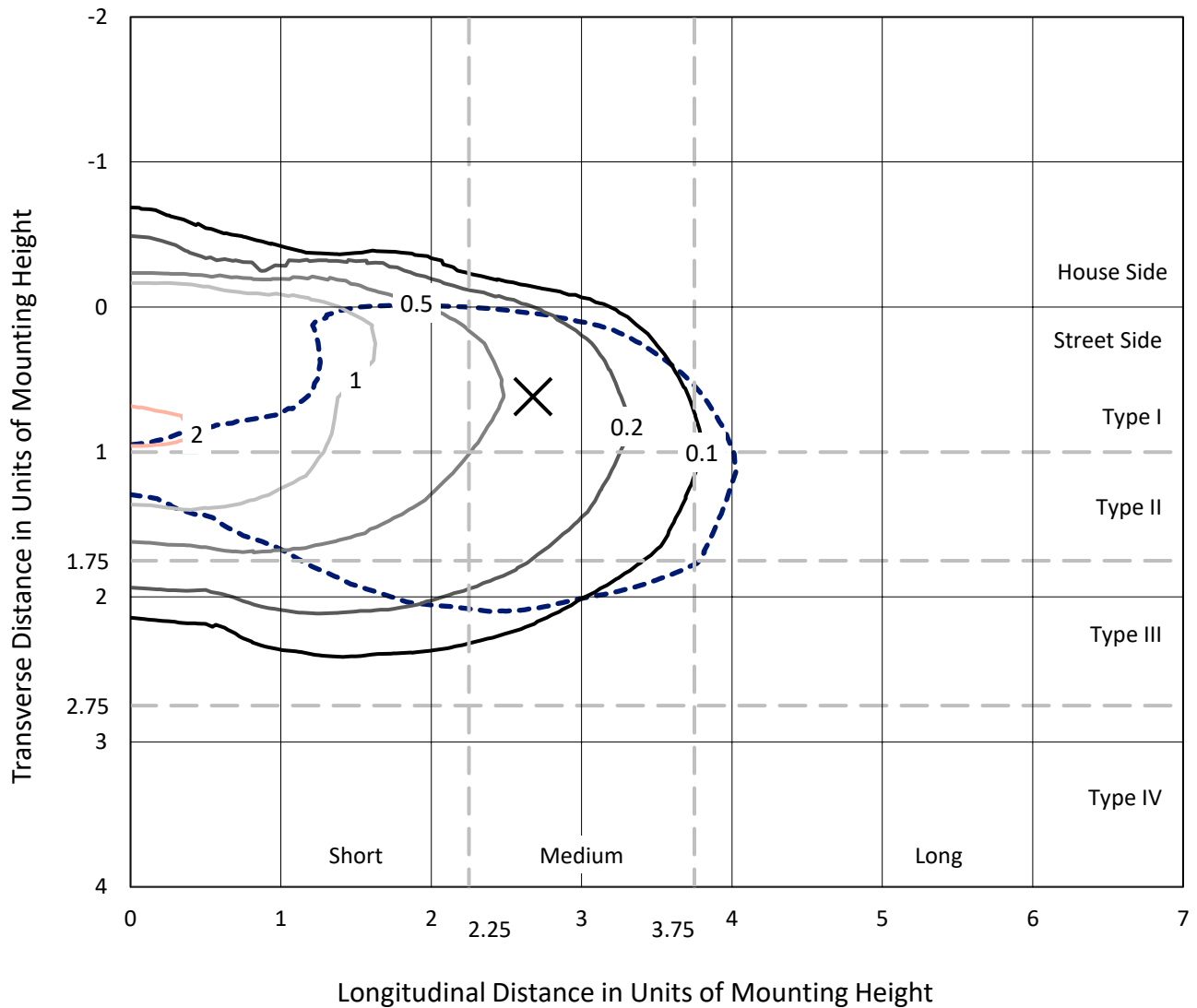
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P946065
 CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

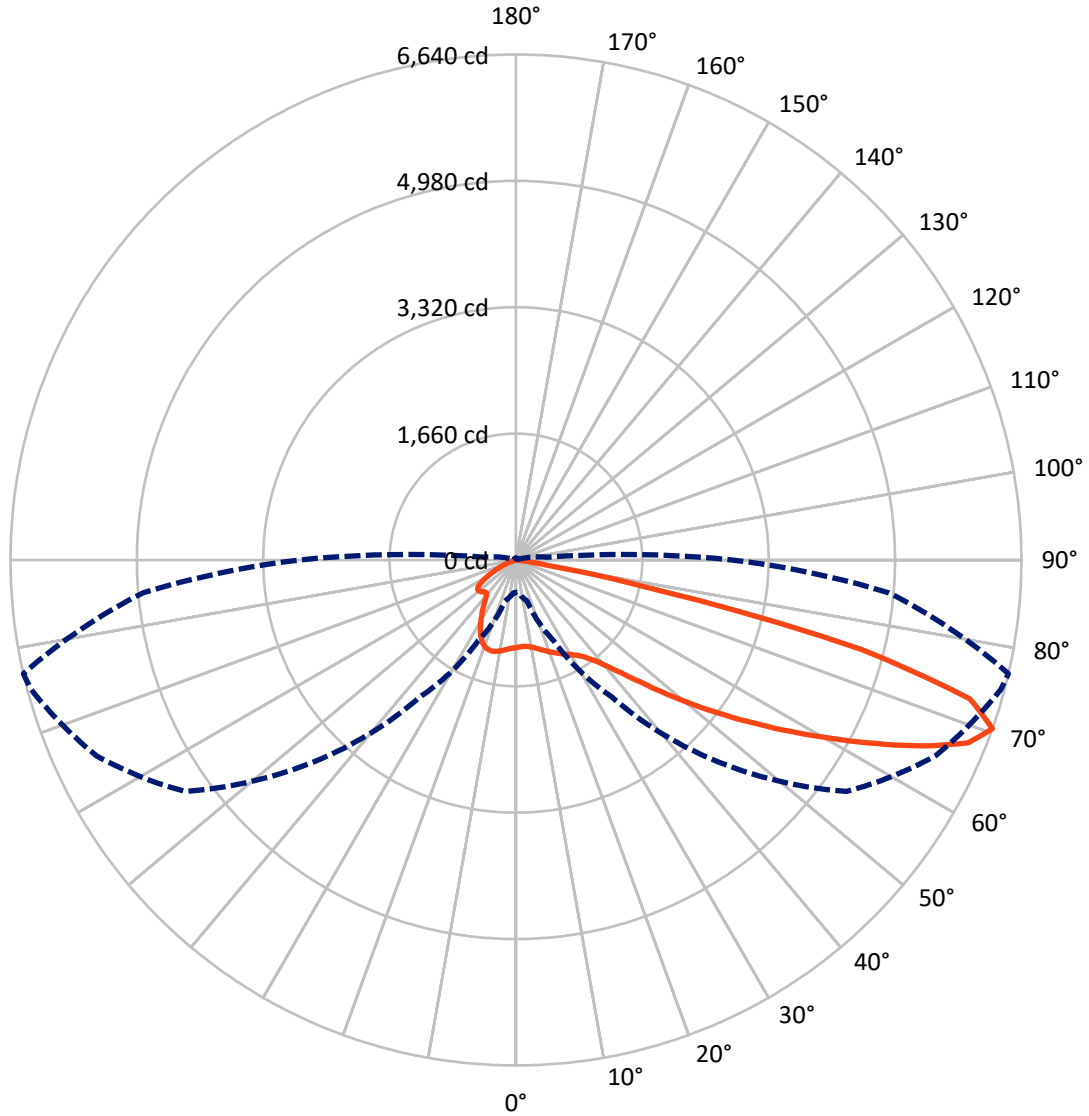
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P946065
CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P946065
 CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 776.8 | 0.0 | 776.8 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 6592.2 | 0.0 | 6592.2 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 7369.0 | 0.0 | 7369.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.1 | 1.3 |
| 10°-20° | 235.2 | 3.2 |
| 20°-30° | 363.7 | 4.9 |
| 30°-40° | 660.0 | 9.0 |
| 40°-50° | 1245.9 | 16.9 |
| 50°-60° | 1800.2 | 24.4 |
| 60°-70° | 1916.2 | 26.0 |
| 70°-80° | 1015.5 | 13.8 |
| 80°-90° | 33.3 | 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° | 7369.0 | 100.0 |
| 0°-180° | 7369.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P946065

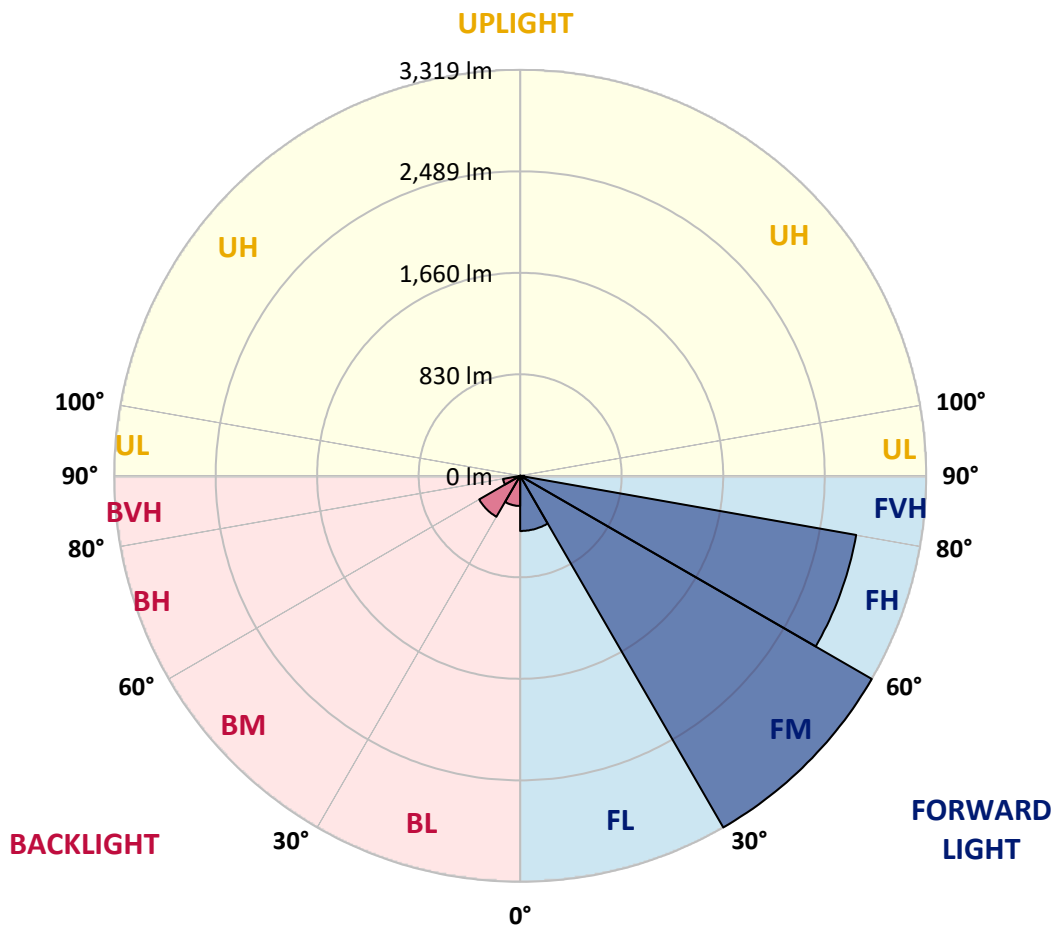
CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 451.2 | 6.1 | | | |
| FM (30°-60°) | 3319.3 | 45.0 | | | |
| FH (60°-80°) | 2789.3 | 37.9 | | | G2/5000 |
| FVH (80°-90°) | 32.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 246.8 | 3.3 | B1/500 | | |
| BM (30°-60°) | 386.7 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 142.4 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 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-G2

Type III Medium



REPORT NUMBER: P946065
 CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 |
| 2.5° | 1079.2 | 1088.9 | 1087.5 | 1094.1 | 1096.4 | 1105.7 | 1115.0 | 1127.6 | 1141.5 | 1141.1 |
| 5° | 1018.2 | 1028.0 | 1030.3 | 1039.1 | 1050.3 | 1064.7 | 1083.8 | 1108.9 | 1135.0 | 1139.2 |
| 7.5° | 946.1 | 956.3 | 962.4 | 980.0 | 1000.5 | 1030.3 | 1061.5 | 1098.2 | 1141.5 | 1147.6 |
| 10° | 873.9 | 883.2 | 891.2 | 916.3 | 948.9 | 993.1 | 1043.8 | 1096.8 | 1155.0 | 1163.9 |
| 12.5° | 829.3 | 838.1 | 846.9 | 868.8 | 909.3 | 963.3 | 1032.2 | 1103.4 | 1177.4 | 1189.9 |
| 15° | 813.4 | 821.4 | 828.3 | 847.9 | 885.6 | 947.0 | 1029.8 | 1116.9 | 1205.7 | 1222.5 |
| 17.5° | 815.8 | 820.0 | 824.6 | 839.5 | 876.3 | 939.6 | 1034.0 | 1140.1 | 1239.2 | 1254.1 |
| 20° | 829.3 | 831.6 | 832.1 | 842.3 | 874.9 | 938.6 | 1042.4 | 1162.5 | 1270.9 | 1290.9 |
| 22.5° | 846.5 | 847.4 | 846.5 | 853.5 | 883.7 | 945.6 | 1053.6 | 1189.5 | 1306.3 | 1324.9 |
| 25° | 927.0 | 909.3 | 887.0 | 873.5 | 898.6 | 959.1 | 1070.3 | 1225.7 | 1344.9 | 1363.0 |
| 27.5° | 1176.9 | 1126.2 | 1046.1 | 956.3 | 929.3 | 978.6 | 1093.6 | 1262.5 | 1384.0 | 1400.3 |
| 30° | 1582.7 | 1516.1 | 1380.2 | 1177.8 | 1028.0 | 1019.6 | 1123.8 | 1299.3 | 1425.4 | 1443.1 |
| 32.5° | 1989.4 | 1973.1 | 1816.3 | 1536.1 | 1249.9 | 1110.8 | 1174.1 | 1349.1 | 1480.3 | 1494.3 |
| 35° | 2400.8 | 2367.7 | 2239.3 | 1962.4 | 1592.0 | 1296.5 | 1257.9 | 1414.2 | 1552.4 | 1568.3 |
| 37.5° | 2715.8 | 2695.8 | 2616.2 | 2388.2 | 1997.8 | 1583.1 | 1401.2 | 1515.2 | 1657.1 | 1674.8 |
| 40° | 2994.1 | 2984.8 | 2957.8 | 2807.5 | 2451.5 | 1958.2 | 1624.1 | 1671.6 | 1802.3 | 1823.3 |
| 42.5° | 3212.8 | 3234.7 | 3250.1 | 3208.2 | 2919.2 | 2386.3 | 1923.8 | 1891.2 | 2004.8 | 2026.2 |
| 45° | 3436.7 | 3444.1 | 3506.0 | 3566.5 | 3383.6 | 2834.0 | 2261.6 | 2148.6 | 2256.5 | 2283.0 |
| 47.5° | 3580.5 | 3610.2 | 3719.1 | 3825.7 | 3774.0 | 3278.0 | 2624.6 | 2452.4 | 2548.3 | 2598.1 |
| 50° | 3591.2 | 3647.5 | 3797.3 | 3983.0 | 4058.4 | 3700.5 | 3019.2 | 2798.7 | 2900.6 | 2955.5 |
| 52.5° | 3412.9 | 3500.4 | 3732.6 | 4004.4 | 4211.9 | 4058.4 | 3427.4 | 3144.9 | 3275.6 | 3347.3 |
| 55° | 2616.7 | 2731.2 | 3489.2 | 3888.1 | 4218.0 | 4329.7 | 3824.8 | 3505.5 | 3693.5 | 3774.5 |
| 57.5° | 2279.8 | 2337.5 | 2743.3 | 3686.1 | 4105.8 | 4439.0 | 4184.0 | 3849.0 | 4148.2 | 4248.7 |
| 60° | 1896.8 | 1972.6 | 2300.7 | 3355.7 | 3953.7 | 4449.7 | 4501.4 | 4292.0 | 4641.0 | 4754.1 |
| 62.5° | 1289.0 | 1371.4 | 1697.6 | 2788.0 | 3745.7 | 4444.6 | 4761.5 | 4748.0 | 5188.7 | 5310.2 |
| 65° | 798.6 | 850.2 | 1065.2 | 2276.5 | 3454.8 | 4450.2 | 5033.8 | 5301.8 | 5766.7 | 5890.0 |
| 67.5° | 631.0 | 654.8 | 766.9 | 1747.9 | 2953.6 | 4324.6 | 5305.5 | 5822.5 | 6310.7 | 6408.4 |
| 70° | 423.9 | 438.4 | 558.0 | 1171.8 | 2197.4 | 3744.7 | 5300.4 | 6084.1 | 6590.8 | 6639.7 |
| 72.5° | 223.4 | 234.5 | 326.2 | 542.6 | 1327.2 | 2661.8 | 4467.9 | 5771.4 | 6312.1 | 6238.6 |
| 75° | 111.7 | 130.3 | 219.6 | 275.5 | 566.8 | 1484.5 | 2774.5 | 4550.3 | 4968.1 | 4683.3 |
| 77.5° | 84.7 | 102.4 | 181.5 | 181.5 | 197.3 | 499.8 | 1175.0 | 2481.7 | 2289.1 | 1906.1 |
| 80° | 54.0 | 69.8 | 158.7 | 137.3 | 82.4 | 127.0 | 306.2 | 695.2 | 486.3 | 370.0 |
| 82.5° | 31.6 | 45.6 | 132.2 | 90.7 | 46.1 | 47.0 | 86.6 | 148.0 | 126.1 | 98.2 |
| 85° | 12.6 | 29.8 | 90.7 | 35.8 | 18.1 | 11.6 | 26.1 | 31.6 | 26.1 | 19.5 |
| 87.5° | 0.0 | 7.0 | 15.8 | 0.0 | 1.4 | 0.9 | 1.9 | 2.3 | 2.3 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P946065
 CATALOG NUMBER: GALN-SB1D-827-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1149.4 | 0° | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 | 1149.4 |
| 1150.4 | 2.5° | 1154.5 | 1155.5 | 1158.3 | 1158.7 | 1152.2 | 1143.8 | 1140.6 | 1139.2 | 1133.6 | 1133.1 |
| 1157.8 | 5° | 1168.5 | 1172.7 | 1168.5 | 1156.4 | 1127.6 | 1087.1 | 1056.4 | 1031.2 | 1008.4 | 1001.4 |
| 1183.4 | 7.5° | 1196.4 | 1200.6 | 1188.1 | 1140.6 | 1068.0 | 987.5 | 914.9 | 863.7 | 817.6 | 800.4 |
| 1214.6 | 10° | 1236.5 | 1242.0 | 1202.5 | 1106.6 | 978.2 | 848.8 | 726.0 | 639.4 | 571.9 | 544.5 |
| 1256.9 | 12.5° | 1286.7 | 1289.0 | 1210.4 | 1055.0 | 861.4 | 676.6 | 502.6 | 410.0 | 349.9 | 327.6 |
| 1308.1 | 15° | 1342.1 | 1338.8 | 1211.3 | 984.7 | 702.2 | 478.4 | 328.1 | 269.4 | 245.2 | 237.8 |
| 1359.3 | 17.5° | 1400.3 | 1386.8 | 1192.7 | 883.2 | 527.7 | 327.1 | 243.4 | 229.4 | 225.2 | 223.4 |
| 1410.0 | 20° | 1457.5 | 1427.2 | 1158.7 | 750.6 | 378.8 | 244.3 | 221.0 | 216.9 | 214.5 | 213.6 |
| 1461.2 | 22.5° | 1509.6 | 1458.0 | 1100.6 | 596.6 | 275.0 | 215.9 | 208.9 | 205.2 | 201.0 | 199.2 |
| 1511.0 | 25° | 1560.3 | 1475.6 | 1018.7 | 452.8 | 220.1 | 202.0 | 196.4 | 189.4 | 183.8 | 181.5 |
| 1564.5 | 27.5° | 1609.7 | 1486.8 | 916.3 | 335.1 | 196.4 | 188.9 | 178.7 | 168.9 | 164.7 | 163.8 |
| 1621.8 | 30° | 1662.3 | 1490.5 | 799.9 | 249.9 | 182.0 | 172.6 | 157.8 | 146.6 | 144.3 | 144.7 |
| 1699.0 | 32.5° | 1726.5 | 1496.1 | 682.7 | 204.8 | 169.9 | 153.1 | 135.4 | 123.8 | 121.9 | 123.8 |
| 1811.6 | 35° | 1803.3 | 1507.3 | 569.6 | 188.5 | 159.2 | 133.1 | 114.0 | 104.2 | 102.4 | 103.8 |
| 1955.9 | 37.5° | 1907.5 | 1525.4 | 464.0 | 185.2 | 150.3 | 116.3 | 95.9 | 88.0 | 88.0 | 88.4 |
| 2132.7 | 40° | 2046.2 | 1573.8 | 369.5 | 182.9 | 145.7 | 103.8 | 81.0 | 77.7 | 79.1 | 80.0 |
| 2358.0 | 42.5° | 2215.1 | 1676.7 | 305.7 | 180.1 | 140.5 | 98.2 | 73.5 | 72.1 | 74.5 | 75.4 |
| 2627.9 | 45° | 2404.5 | 1807.0 | 283.4 | 175.4 | 135.9 | 101.9 | 70.3 | 68.4 | 71.2 | 71.7 |
| 2930.4 | 47.5° | 2600.4 | 1934.5 | 280.6 | 170.3 | 131.2 | 107.5 | 69.3 | 65.1 | 68.4 | 68.9 |
| 3253.3 | 50° | 2798.7 | 2017.8 | 283.4 | 162.4 | 123.8 | 107.5 | 69.8 | 61.9 | 64.7 | 66.1 |
| 3588.4 | 52.5° | 2998.3 | 2055.9 | 281.5 | 145.2 | 110.8 | 101.0 | 69.8 | 59.1 | 61.9 | 62.8 |
| 3950.4 | 55° | 3191.9 | 2048.5 | 253.2 | 119.6 | 94.0 | 89.3 | 67.9 | 56.8 | 58.6 | 59.1 |
| 4292.4 | 57.5° | 3345.0 | 1944.7 | 200.6 | 93.1 | 76.3 | 74.5 | 61.9 | 54.0 | 55.4 | 54.9 |
| 4606.1 | 60° | 3425.0 | 1716.7 | 143.3 | 71.7 | 60.0 | 58.6 | 54.4 | 50.3 | 51.2 | 48.9 |
| 4871.8 | 62.5° | 3426.0 | 1415.1 | 95.9 | 56.8 | 47.9 | 46.5 | 46.5 | 45.1 | 44.2 | 39.6 |
| 5077.5 | 65° | 3352.9 | 1080.6 | 63.8 | 45.1 | 38.6 | 36.3 | 39.1 | 38.6 | 35.4 | 28.9 |
| 5140.3 | 67.5° | 3187.2 | 708.3 | 48.4 | 35.4 | 29.8 | 28.4 | 31.2 | 32.6 | 30.2 | 24.2 |
| 4911.4 | 70° | 2846.6 | 412.3 | 40.0 | 27.5 | 22.3 | 20.9 | 25.1 | 27.9 | 25.1 | 19.5 |
| 4198.0 | 72.5° | 2364.5 | 222.4 | 32.6 | 20.5 | 15.4 | 14.0 | 20.0 | 22.8 | 20.0 | 14.4 |
| 2693.5 | 75° | 1534.3 | 119.1 | 25.1 | 13.5 | 7.9 | 8.8 | 14.9 | 16.8 | 14.0 | 9.3 |
| 790.6 | 77.5° | 515.1 | 52.6 | 15.8 | 6.5 | 3.7 | 3.7 | 8.8 | 10.2 | 6.5 | 3.3 |
| 143.8 | 80° | 114.9 | 21.9 | 6.5 | 2.8 | 1.4 | 1.4 | 1.9 | 1.9 | 0.9 | 0.0 |
| 44.2 | 82.5° | 37.7 | 8.8 | 2.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.2 | 85° | 14.4 | 3.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 3.7 | 87.5° | 5.6 | 0.5 | 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> |
| 1149.4 |
| 1134.1 |
| 997.3 |
| 793.4 |
| 532.8 |
| 320.6 |
| 237.8 |
| 222.9 |
| 212.7 |
| 198.7 |
| 180.6 |
| 162.9 |
| 144.7 |
| 123.3 |
| 103.3 |
| 88.0 |
| 80.0 |
| 75.4 |
| 72.1 |
| 69.3 |
| 66.5 |
| 62.8 |
| 59.1 |
| 54.9 |
| 48.4 |
| 38.2 |
| 27.9 |
| 23.7 |
| 18.6 |
| 14.0 |
| 8.4 |
| 2.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)