

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: P945318

Luminaire Tested: **GALN-SB1B-760-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1B-760-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4830 lumens
Efficiency: N/A
Efficacy: 121.4 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

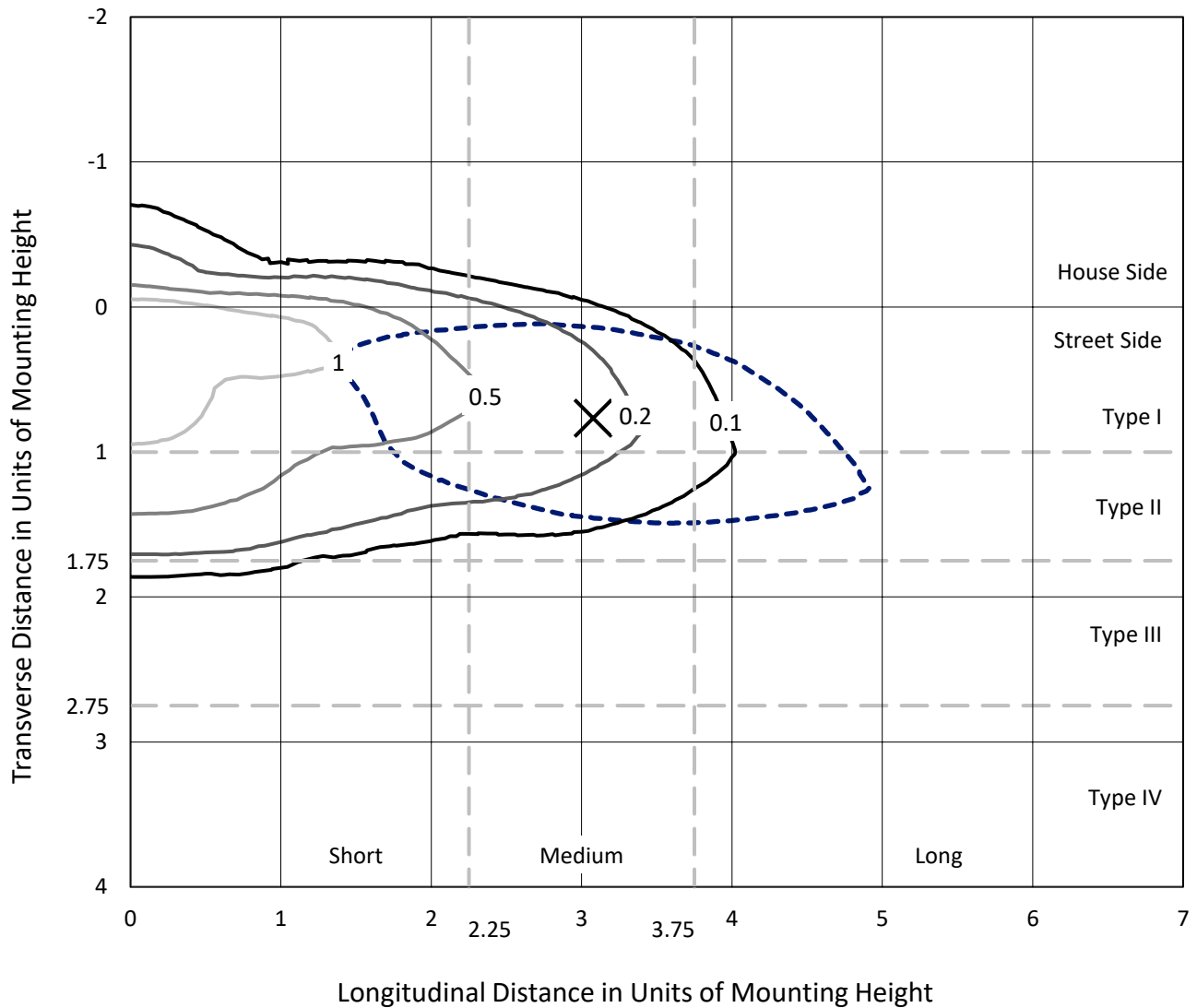
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945318
 CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

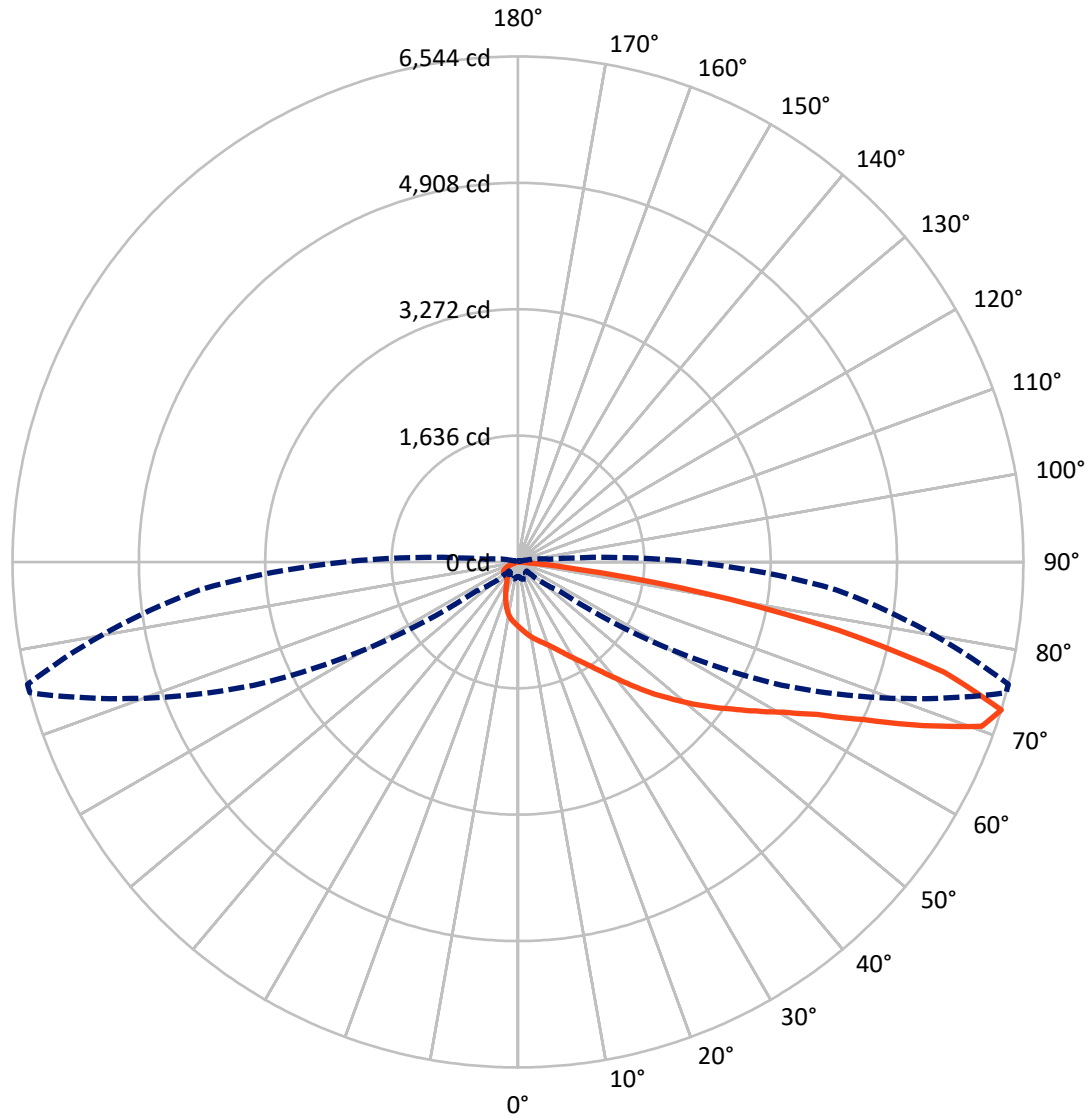
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P945318
CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P945318
 CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 494.3 | 0.0 | 494.3 |
| | % Fixture | 10.2 | 0.0 | 10.2 |
| Street Side | Lumens | 4335.6 | 0.0 | 4335.6 |
| | % Fixture | 89.8 | 0.0 | 89.8 |
| Total | Lumens | 4830.0 | 0.0 | 4830.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 75.9 | 1.6 |
| 10°-20° | 203.5 | 4.2 |
| 20°-30° | 322.2 | 6.7 |
| 30°-40° | 498.4 | 10.3 |
| 40°-50° | 757.0 | 15.7 |
| 50°-60° | 1043.6 | 21.6 |
| 60°-70° | 1102.5 | 22.8 |
| 70°-80° | 756.4 | 15.7 |
| 80°-90° | 70.4 | 1.5 |
| 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° | 4830.0 | 100.0 |
| 0°-180° | 4830.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P945318

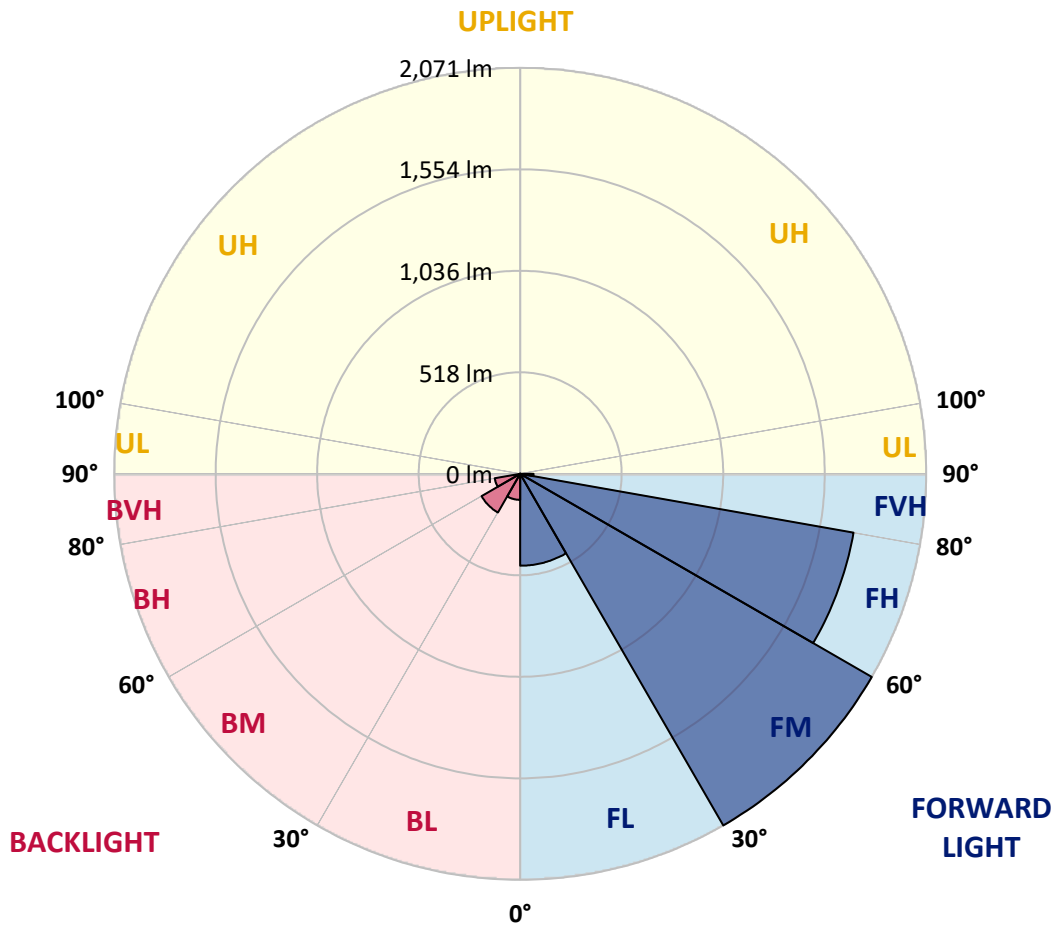
CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 468.7 | 9.7 | | | |
| FM (30°-60°) | 2071.5 | 42.9 | | | |
| FH (60°-80°) | 1726.9 | 35.8 | | | G1/1800 |
| FVH (80°-90°) | 68.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 132.9 | 2.8 | B1/500 | | |
| BM (30°-60°) | 227.6 | 4.7 | B1/1000 | | |
| BH (60°-80°) | 132.0 | 2.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.9 | 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-G1

Type II Medium



REPORT NUMBER: P945318
 CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 |
| 2.5° | 970.3 | 957.5 | 960.0 | 947.1 | 941.2 | 926.8 | 911.7 | 892.0 | 870.1 | 870.1 |
| 5° | 1072.5 | 1064.3 | 1064.3 | 1049.3 | 1037.7 | 1015.1 | 988.2 | 953.4 | 912.1 | 908.0 |
| 7.5° | 1135.1 | 1130.1 | 1133.3 | 1124.5 | 1115.1 | 1091.6 | 1059.6 | 1014.2 | 955.6 | 950.6 |
| 10° | 1147.4 | 1147.0 | 1155.8 | 1158.3 | 1164.6 | 1152.7 | 1124.2 | 1071.8 | 998.5 | 991.3 |
| 12.5° | 1100.0 | 1094.1 | 1115.7 | 1141.1 | 1176.8 | 1192.8 | 1178.1 | 1124.5 | 1037.7 | 1027.7 |
| 15° | 1022.3 | 1023.6 | 1044.3 | 1083.4 | 1143.0 | 1200.0 | 1219.1 | 1175.9 | 1077.5 | 1065.6 |
| 17.5° | 977.9 | 973.2 | 991.0 | 1026.1 | 1091.9 | 1172.4 | 1238.2 | 1223.8 | 1119.8 | 1106.3 |
| 20° | 972.5 | 972.2 | 976.3 | 992.3 | 1042.4 | 1132.9 | 1236.0 | 1270.5 | 1169.6 | 1153.9 |
| 22.5° | 1009.5 | 1008.9 | 1005.4 | 1002.3 | 1016.1 | 1094.4 | 1226.6 | 1315.0 | 1229.1 | 1212.2 |
| 25° | 1066.2 | 1065.3 | 1059.9 | 1040.8 | 1027.4 | 1073.7 | 1217.8 | 1356.3 | 1299.6 | 1280.8 |
| 27.5° | 1135.4 | 1134.8 | 1125.1 | 1096.3 | 1061.5 | 1075.6 | 1213.5 | 1398.9 | 1381.1 | 1362.6 |
| 30° | 1220.4 | 1219.1 | 1199.0 | 1158.3 | 1112.9 | 1105.4 | 1219.4 | 1446.9 | 1466.0 | 1451.9 |
| 32.5° | 1326.9 | 1323.4 | 1297.1 | 1235.7 | 1172.1 | 1145.2 | 1230.7 | 1496.1 | 1566.6 | 1553.4 |
| 35° | 1409.3 | 1404.0 | 1388.6 | 1334.4 | 1240.7 | 1194.0 | 1257.0 | 1554.3 | 1687.5 | 1675.9 |
| 37.5° | 1480.1 | 1474.8 | 1462.2 | 1417.7 | 1339.1 | 1256.4 | 1299.3 | 1632.0 | 1830.4 | 1824.7 |
| 40° | 1556.5 | 1547.8 | 1541.8 | 1494.2 | 1423.1 | 1346.3 | 1359.8 | 1722.9 | 1994.9 | 1995.5 |
| 42.5° | 1615.4 | 1612.0 | 1612.6 | 1576.0 | 1504.2 | 1452.8 | 1440.0 | 1825.4 | 2191.9 | 2197.9 |
| 45° | 1665.9 | 1663.1 | 1674.7 | 1649.0 | 1586.0 | 1522.7 | 1534.0 | 1941.3 | 2407.5 | 2419.7 |
| 47.5° | 1704.7 | 1707.9 | 1724.5 | 1707.9 | 1670.9 | 1571.9 | 1617.3 | 2066.3 | 2634.0 | 2635.6 |
| 50° | 1743.6 | 1744.8 | 1772.4 | 1764.3 | 1749.2 | 1634.2 | 1694.1 | 2206.0 | 2872.8 | 2875.6 |
| 52.5° | 1755.8 | 1753.9 | 1797.8 | 1817.8 | 1818.5 | 1711.3 | 1793.4 | 2358.3 | 3106.8 | 3115.9 |
| 55° | 1693.1 | 1698.5 | 1769.3 | 1850.7 | 1883.0 | 1817.8 | 1927.5 | 2551.0 | 3356.2 | 3360.0 |
| 57.5° | 1386.7 | 1416.2 | 1572.8 | 1761.8 | 1924.7 | 1970.4 | 2120.2 | 2776.3 | 3644.1 | 3640.7 |
| 60° | 841.6 | 876.6 | 1064.0 | 1477.6 | 1788.7 | 2123.6 | 2404.1 | 3125.3 | 3958.7 | 3949.0 |
| 62.5° | 470.6 | 481.2 | 541.1 | 884.5 | 1360.4 | 2026.2 | 2681.3 | 3573.6 | 4381.1 | 4348.2 |
| 65° | 346.8 | 350.3 | 364.4 | 433.3 | 668.6 | 1558.4 | 2620.6 | 4109.7 | 4974.5 | 4915.9 |
| 67.5° | 301.4 | 304.9 | 318.6 | 328.0 | 298.6 | 818.7 | 2159.0 | 4407.1 | 5728.0 | 5651.2 |
| 70° | 253.8 | 255.7 | 277.9 | 284.2 | 213.7 | 311.4 | 1387.0 | 4315.3 | 6425.4 | 6370.6 |
| 72.5° | 189.2 | 196.8 | 229.0 | 244.1 | 171.4 | 165.4 | 652.9 | 3772.9 | 6543.5 | 6544.2 |
| 75° | 128.5 | 135.4 | 172.3 | 200.8 | 132.2 | 115.9 | 263.5 | 2817.3 | 5697.9 | 5697.9 |
| 77.5° | 87.7 | 93.4 | 120.0 | 157.6 | 100.3 | 79.6 | 136.6 | 1788.1 | 4087.8 | 4231.6 |
| 80° | 38.9 | 42.3 | 77.4 | 114.4 | 76.1 | 51.4 | 77.4 | 979.1 | 2472.0 | 2441.6 |
| 82.5° | 19.1 | 21.9 | 49.5 | 71.4 | 49.2 | 31.6 | 40.7 | 465.6 | 801.1 | 761.4 |
| 85° | 3.8 | 5.0 | 26.6 | 30.4 | 22.9 | 14.1 | 15.4 | 143.2 | 96.5 | 110.3 |
| 87.5° | 0.0 | 0.0 | 8.1 | 5.6 | 2.5 | 3.1 | 3.1 | 12.8 | 7.5 | 8.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P945318
 CATALOG NUMBER: GALN-SB1B-760-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 834.7 | 0° | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 | 834.7 |
| 848.8 | 2.5° | 837.5 | 825.9 | 800.5 | 775.4 | 749.8 | 726.3 | 710.0 | 693.7 | 683.6 | 679.3 |
| 867.6 | 5° | 844.1 | 820.6 | 767.3 | 711.5 | 656.4 | 602.5 | 562.1 | 524.2 | 512.3 | 492.5 |
| 889.8 | 7.5° | 854.4 | 816.2 | 732.2 | 638.2 | 548.6 | 469.7 | 412.6 | 367.2 | 349.0 | 331.5 |
| 908.9 | 10° | 861.3 | 808.0 | 685.8 | 560.2 | 439.0 | 350.3 | 295.8 | 262.9 | 251.0 | 240.3 |
| 926.8 | 12.5° | 864.1 | 793.0 | 632.6 | 472.8 | 341.5 | 266.9 | 234.4 | 219.0 | 214.9 | 211.2 |
| 943.7 | 15° | 866.6 | 778.3 | 573.0 | 388.5 | 269.8 | 223.4 | 210.5 | 205.5 | 202.7 | 200.2 |
| 960.9 | 17.5° | 868.8 | 759.5 | 505.1 | 315.8 | 227.8 | 205.8 | 199.6 | 194.3 | 192.1 | 189.2 |
| 985.7 | 20° | 876.3 | 741.3 | 444.3 | 260.7 | 204.9 | 193.3 | 186.4 | 180.8 | 178.9 | 177.0 |
| 1020.8 | 22.5° | 890.4 | 726.6 | 385.4 | 223.4 | 191.1 | 180.5 | 171.7 | 165.4 | 164.2 | 162.9 |
| 1063.4 | 25° | 907.4 | 708.4 | 329.9 | 199.3 | 177.6 | 165.7 | 156.0 | 150.7 | 149.5 | 149.8 |
| 1112.6 | 27.5° | 929.0 | 688.3 | 282.3 | 183.9 | 165.7 | 152.0 | 141.0 | 136.9 | 137.5 | 138.8 |
| 1169.3 | 30° | 952.8 | 669.9 | 245.0 | 173.3 | 155.1 | 139.7 | 128.8 | 126.0 | 128.1 | 130.0 |
| 1245.1 | 32.5° | 988.2 | 653.6 | 219.0 | 164.8 | 145.7 | 129.7 | 120.9 | 117.5 | 120.0 | 122.5 |
| 1341.9 | 35° | 1036.4 | 645.4 | 204.3 | 157.6 | 137.5 | 121.9 | 113.1 | 110.6 | 113.1 | 113.7 |
| 1460.0 | 37.5° | 1095.7 | 644.8 | 198.0 | 151.6 | 130.0 | 115.3 | 105.6 | 104.6 | 106.5 | 106.8 |
| 1602.0 | 40° | 1172.1 | 648.9 | 193.3 | 147.3 | 122.2 | 107.8 | 98.7 | 97.8 | 98.4 | 100.6 |
| 1772.7 | 42.5° | 1268.9 | 665.8 | 186.7 | 141.6 | 113.7 | 100.3 | 93.1 | 90.9 | 90.5 | 93.1 |
| 1963.8 | 45° | 1390.5 | 703.1 | 178.0 | 132.5 | 106.2 | 94.0 | 86.8 | 84.3 | 83.3 | 84.0 |
| 2161.2 | 47.5° | 1523.0 | 748.8 | 169.2 | 124.1 | 100.9 | 89.0 | 81.8 | 78.6 | 77.1 | 77.1 |
| 2345.8 | 50° | 1651.5 | 800.5 | 163.2 | 115.3 | 97.1 | 84.3 | 76.4 | 73.3 | 70.8 | 70.2 |
| 2535.6 | 52.5° | 1778.7 | 851.3 | 158.5 | 106.5 | 92.7 | 78.3 | 71.4 | 68.0 | 65.2 | 63.9 |
| 2723.6 | 55° | 1894.6 | 899.5 | 150.4 | 98.1 | 87.1 | 72.1 | 66.4 | 63.0 | 59.5 | 57.3 |
| 2914.1 | 57.5° | 2005.8 | 939.6 | 135.4 | 89.3 | 78.3 | 66.1 | 61.1 | 57.3 | 53.3 | 50.4 |
| 3106.8 | 60° | 2107.0 | 960.3 | 116.6 | 79.9 | 69.6 | 59.8 | 55.1 | 51.7 | 46.4 | 41.7 |
| 3296.4 | 62.5° | 2184.1 | 952.2 | 96.2 | 69.2 | 60.5 | 54.2 | 48.3 | 44.8 | 38.5 | 32.9 |
| 3523.5 | 65° | 2263.1 | 907.7 | 76.8 | 58.0 | 52.9 | 46.7 | 40.4 | 37.0 | 29.8 | 23.8 |
| 3830.9 | 67.5° | 2365.5 | 812.7 | 60.5 | 48.3 | 45.7 | 37.0 | 31.6 | 29.5 | 24.4 | 18.8 |
| 4160.8 | 70° | 2431.3 | 631.3 | 47.0 | 39.2 | 37.6 | 26.9 | 24.4 | 24.1 | 19.4 | 14.4 |
| 4138.6 | 72.5° | 2250.8 | 413.9 | 36.0 | 29.8 | 26.9 | 17.5 | 18.8 | 18.8 | 14.1 | 9.7 |
| 3627.9 | 75° | 1878.9 | 242.2 | 26.0 | 21.3 | 15.4 | 11.3 | 12.8 | 12.8 | 8.8 | 4.7 |
| 2585.8 | 77.5° | 1341.9 | 129.1 | 17.2 | 13.2 | 7.8 | 5.0 | 6.9 | 6.6 | 2.8 | 0.3 |
| 1013.6 | 80° | 513.2 | 44.5 | 8.1 | 5.3 | 2.2 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 |
| 158.2 | 82.5° | 78.3 | 11.6 | 1.6 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.5 | 85° | 14.1 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8.8 | 87.5° | 3.1 | 0.0 | 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> |
| 834.7 |
| 679.9 |
| 493.8 |
| 331.2 |
| 240.0 |
| 211.2 |
| 200.2 |
| 189.2 |
| 177.3 |
| 162.0 |
| 149.1 |
| 138.2 |
| 129.4 |
| 121.9 |
| 113.4 |
| 106.2 |
| 100.3 |
| 92.7 |
| 84.9 |
| 77.1 |
| 69.9 |
| 63.3 |
| 56.4 |
| 49.2 |
| 40.4 |
| 30.7 |
| 22.2 |
| 17.5 |
| 12.8 |
| 8.5 |
| 3.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)