

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: P951168

Luminaire Tested: **GALN-SB5B-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951168
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-SB5B-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14415 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

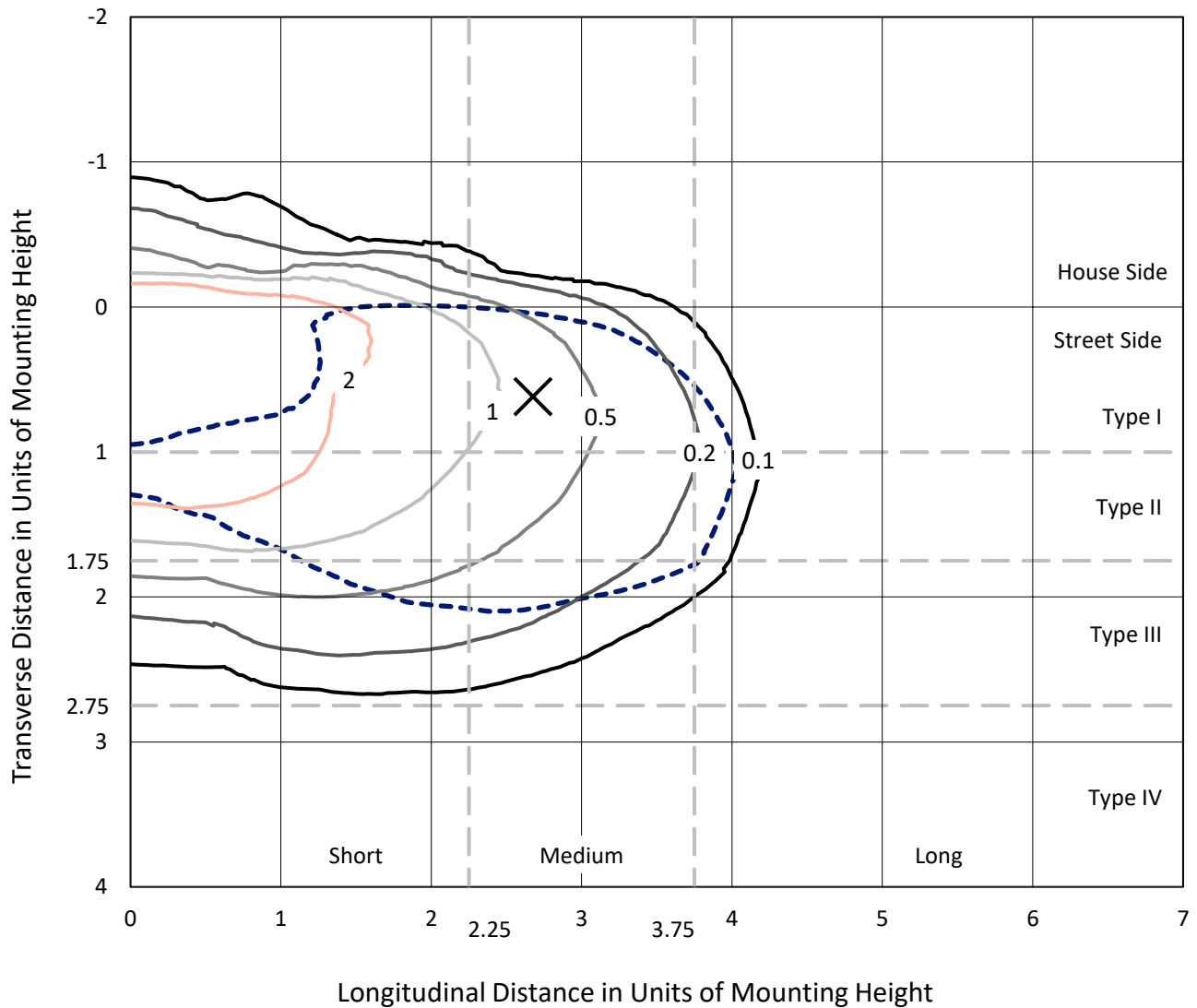
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951168
 CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

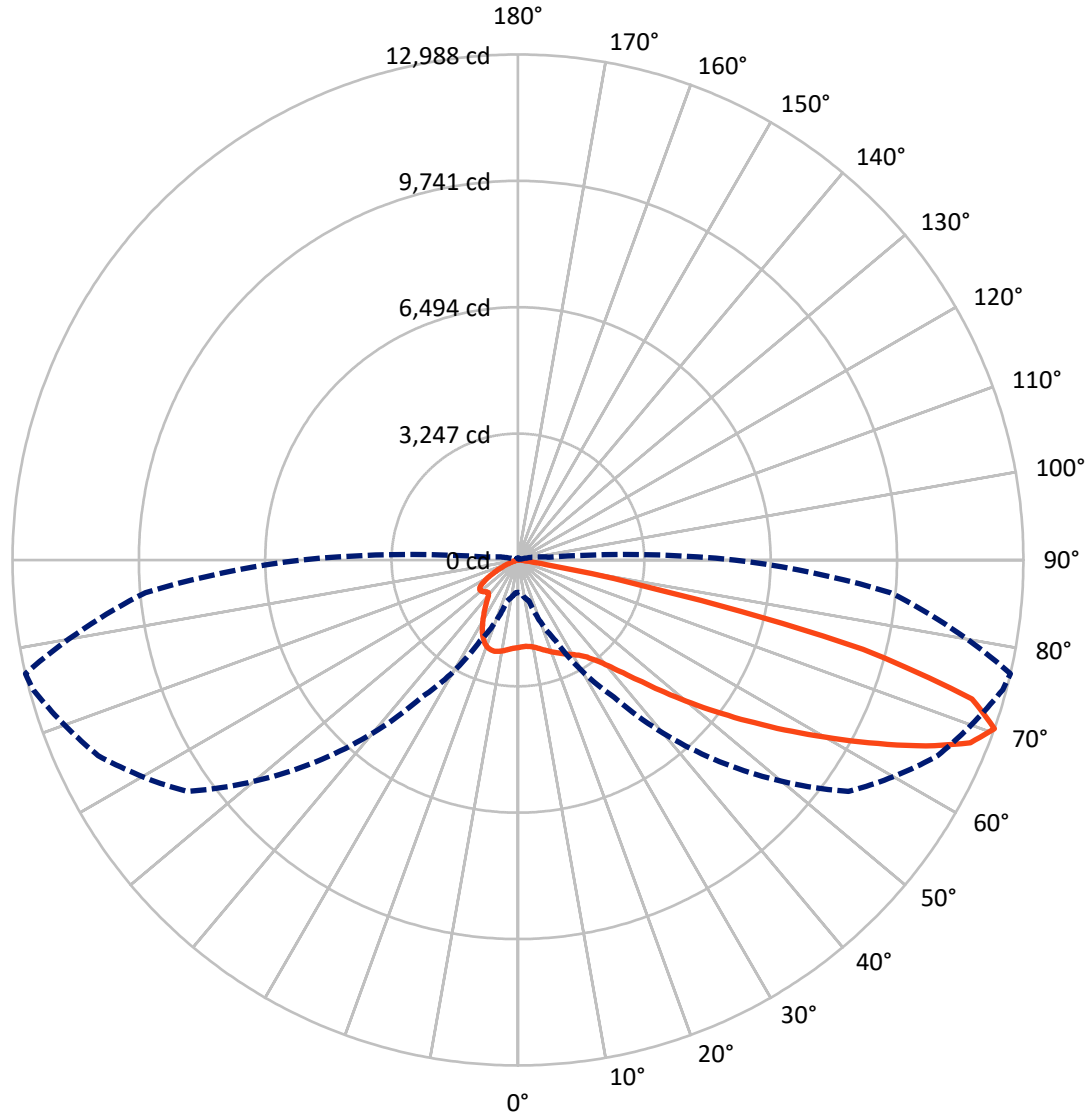
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P951168
CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951168
 CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1519.5 | 0.0 | 1519.5 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 12895.5 | 0.0 | 12895.5 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 14415.0 | 0.0 | 14415.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 193.8 | 1.3 |
| 10°-20° | 460.0 | 3.2 |
| 20°-30° | 711.5 | 4.9 |
| 30°-40° | 1291.1 | 9.0 |
| 40°-50° | 2437.1 | 16.9 |
| 50°-60° | 3521.4 | 24.4 |
| 60°-70° | 3748.4 | 26.0 |
| 70°-80° | 1986.4 | 13.8 |
| 80°-90° | 65.2 | 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° | 14415.0 | 100.0 |
| 0°-180° | 14415.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P951168

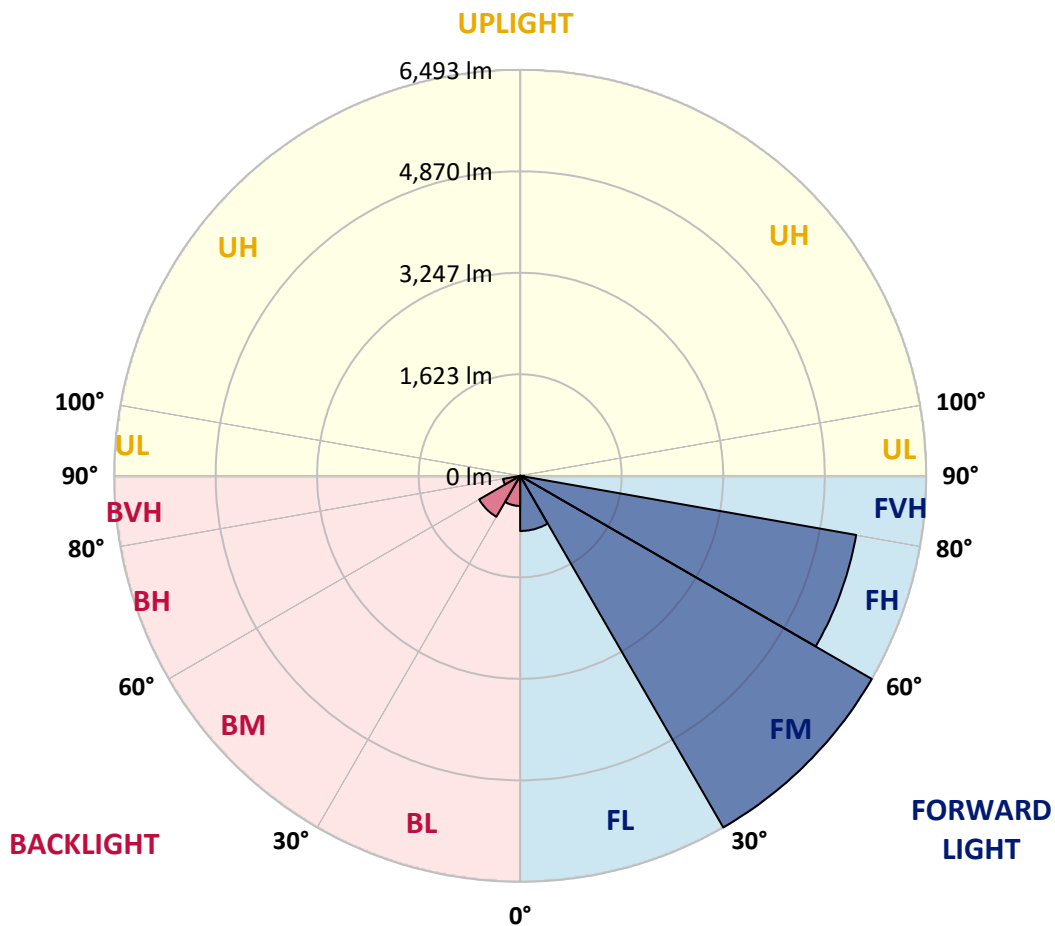
CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 882.5 | 6.1 | | | |
| FM (30°-60°) | 6493.2 | 45.0 | | | |
| FH (60°-80°) | 5456.3 | 37.9 | | | G3/7500 |
| FVH (80°-90°) | 63.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 482.8 | 3.3 | B1/500 | | |
| BM (30°-60°) | 756.4 | 5.2 | B1/1000 | | |
| BH (60°-80°) | 278.6 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G3

Type III Medium



REPORT NUMBER: P951168
 CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 |
| 2.5° | 2111.0 | 2130.1 | 2127.4 | 2140.2 | 2144.7 | 2162.9 | 2181.1 | 2205.7 | 2233.0 | 2232.1 |
| 5° | 1991.8 | 2010.9 | 2015.4 | 2032.7 | 2054.6 | 2082.8 | 2120.1 | 2169.3 | 2220.3 | 2228.5 |
| 7.5° | 1850.7 | 1870.7 | 1882.5 | 1917.1 | 1957.2 | 2015.4 | 2076.4 | 2148.3 | 2233.0 | 2244.8 |
| 10° | 1709.6 | 1727.8 | 1743.3 | 1792.4 | 1856.1 | 1942.6 | 2041.8 | 2145.6 | 2259.4 | 2276.7 |
| 12.5° | 1622.2 | 1639.5 | 1656.8 | 1699.6 | 1778.8 | 1884.4 | 2019.1 | 2158.4 | 2303.1 | 2327.7 |
| 15° | 1591.2 | 1606.7 | 1620.4 | 1658.6 | 1732.3 | 1852.5 | 2014.5 | 2184.8 | 2358.6 | 2391.4 |
| 17.5° | 1595.8 | 1604.0 | 1613.1 | 1642.2 | 1714.1 | 1837.9 | 2022.7 | 2230.3 | 2424.2 | 2453.3 |
| 20° | 1622.2 | 1626.7 | 1627.6 | 1647.7 | 1711.4 | 1836.1 | 2039.1 | 2274.0 | 2486.1 | 2525.2 |
| 22.5° | 1655.9 | 1657.7 | 1655.9 | 1669.5 | 1728.7 | 1849.8 | 2061.0 | 2326.8 | 2555.3 | 2591.7 |
| 25° | 1813.3 | 1778.8 | 1735.1 | 1708.7 | 1757.8 | 1876.2 | 2093.7 | 2397.8 | 2630.8 | 2666.3 |
| 27.5° | 2302.2 | 2203.0 | 2046.4 | 1870.7 | 1817.9 | 1914.4 | 2139.2 | 2469.7 | 2707.3 | 2739.1 |
| 30° | 3096.0 | 2965.8 | 2700.0 | 2304.0 | 2010.9 | 1994.5 | 2198.4 | 2541.6 | 2788.3 | 2822.9 |
| 32.5° | 3891.6 | 3859.7 | 3553.0 | 3005.0 | 2445.1 | 2172.9 | 2296.7 | 2639.0 | 2895.7 | 2923.0 |
| 35° | 4696.3 | 4631.7 | 4380.4 | 3838.8 | 3114.2 | 2536.1 | 2460.6 | 2766.4 | 3036.8 | 3067.8 |
| 37.5° | 5312.6 | 5273.5 | 5117.8 | 4671.7 | 3908.0 | 3096.9 | 2741.0 | 2964.0 | 3241.6 | 3276.2 |
| 40° | 5857.0 | 5838.8 | 5786.0 | 5491.9 | 4795.5 | 3830.6 | 3177.0 | 3269.9 | 3525.7 | 3566.6 |
| 42.5° | 6284.8 | 6327.6 | 6357.6 | 6275.7 | 5710.4 | 4668.1 | 3763.2 | 3699.5 | 3921.6 | 3963.5 |
| 45° | 6722.7 | 6737.2 | 6858.3 | 6976.7 | 6618.9 | 5543.8 | 4424.1 | 4202.9 | 4414.1 | 4466.0 |
| 47.5° | 7004.0 | 7062.2 | 7275.2 | 7483.7 | 7382.7 | 6412.3 | 5134.2 | 4797.4 | 4984.9 | 5082.3 |
| 50° | 7024.9 | 7135.1 | 7428.2 | 7791.4 | 7938.9 | 7238.8 | 5906.1 | 5474.6 | 5674.0 | 5781.4 |
| 52.5° | 6676.3 | 6847.4 | 7301.6 | 7833.3 | 8239.3 | 7938.9 | 6704.5 | 6151.9 | 6407.7 | 6547.9 |
| 55° | 5118.7 | 5342.6 | 6825.5 | 7605.7 | 8251.1 | 8469.6 | 7481.9 | 6857.4 | 7225.2 | 7383.6 |
| 57.5° | 4459.6 | 4572.5 | 5366.3 | 7210.6 | 8031.7 | 8683.5 | 8184.6 | 7529.2 | 8114.6 | 8311.2 |
| 60° | 3710.4 | 3858.8 | 4500.6 | 6564.3 | 7734.0 | 8704.4 | 8805.5 | 8395.8 | 9078.6 | 9299.8 |
| 62.5° | 2521.6 | 2682.7 | 3320.8 | 5453.7 | 7327.1 | 8694.4 | 9314.3 | 9288.0 | 10150.0 | 10387.6 |
| 65° | 1562.1 | 1663.1 | 2083.7 | 4453.3 | 6758.2 | 8705.3 | 9846.9 | 10371.2 | 11280.6 | 11521.9 |
| 67.5° | 1234.4 | 1280.8 | 1500.2 | 3419.1 | 5777.8 | 8459.6 | 10378.5 | 11389.9 | 12344.8 | 12536.0 |
| 70° | 829.3 | 857.5 | 1091.5 | 2292.2 | 4298.5 | 7325.3 | 10368.5 | 11901.5 | 12892.8 | 12988.4 |
| 72.5° | 437.0 | 458.8 | 638.1 | 1061.4 | 2596.2 | 5207.0 | 8739.9 | 11289.7 | 12347.5 | 12203.7 |
| 75° | 218.5 | 254.9 | 429.7 | 538.9 | 1108.8 | 2903.9 | 5427.3 | 8901.1 | 9718.5 | 9161.4 |
| 77.5° | 165.7 | 200.3 | 355.0 | 355.0 | 386.0 | 977.7 | 2298.5 | 4854.7 | 4477.8 | 3728.7 |
| 80° | 105.6 | 136.5 | 310.4 | 268.5 | 161.1 | 248.5 | 599.0 | 1360.0 | 951.3 | 723.7 |
| 82.5° | 61.9 | 89.2 | 258.5 | 177.5 | 90.1 | 91.9 | 169.3 | 289.5 | 246.7 | 192.1 |
| 85° | 24.6 | 58.3 | 177.5 | 70.1 | 35.5 | 22.8 | 51.0 | 61.9 | 51.0 | 38.2 |
| 87.5° | 0.0 | 13.7 | 31.0 | 0.0 | 2.7 | 1.8 | 3.6 | 4.6 | 4.6 | 3.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951168
 CATALOG NUMBER: GALN-SB5B-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2248.5 | 0° | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 | 2248.5 |
| 2250.3 | 2.5° | 2258.5 | 2260.3 | 2265.8 | 2266.7 | 2253.9 | 2237.6 | 2231.2 | 2228.5 | 2217.5 | 2216.6 |
| 2264.9 | 5° | 2285.8 | 2294.0 | 2285.8 | 2262.1 | 2205.7 | 2126.5 | 2066.4 | 2017.3 | 1972.7 | 1959.0 |
| 2314.9 | 7.5° | 2340.4 | 2348.6 | 2324.0 | 2231.2 | 2089.2 | 1931.7 | 1789.7 | 1689.5 | 1599.4 | 1565.7 |
| 2375.9 | 10° | 2418.7 | 2429.6 | 2352.3 | 2164.7 | 1913.5 | 1660.4 | 1420.1 | 1250.8 | 1118.8 | 1065.1 |
| 2458.8 | 12.5° | 2517.0 | 2521.6 | 2367.7 | 2063.7 | 1685.0 | 1323.6 | 983.1 | 802.0 | 684.6 | 640.9 |
| 2558.9 | 15° | 2625.4 | 2619.0 | 2369.6 | 1926.2 | 1373.7 | 935.8 | 641.8 | 527.1 | 479.7 | 465.2 |
| 2659.0 | 17.5° | 2739.1 | 2712.7 | 2333.1 | 1727.8 | 1032.3 | 640.0 | 476.1 | 448.8 | 440.6 | 437.0 |
| 2758.3 | 20° | 2851.1 | 2791.9 | 2266.7 | 1468.3 | 741.0 | 477.9 | 432.4 | 424.2 | 419.7 | 417.8 |
| 2858.4 | 22.5° | 2953.1 | 2852.0 | 2152.9 | 1167.0 | 538.0 | 422.4 | 408.7 | 401.4 | 393.3 | 389.6 |
| 2955.8 | 25° | 3052.3 | 2886.6 | 1992.7 | 885.7 | 430.6 | 395.1 | 384.2 | 370.5 | 359.6 | 355.0 |
| 3060.5 | 27.5° | 3148.8 | 2908.5 | 1792.4 | 655.4 | 384.2 | 369.6 | 349.6 | 330.4 | 322.3 | 320.4 |
| 3172.5 | 30° | 3251.6 | 2915.7 | 1564.8 | 488.8 | 355.9 | 337.7 | 308.6 | 286.7 | 282.2 | 283.1 |
| 3323.6 | 32.5° | 3377.3 | 2926.7 | 1335.4 | 400.5 | 332.3 | 299.5 | 264.9 | 242.1 | 238.5 | 242.1 |
| 3543.9 | 35° | 3527.5 | 2948.5 | 1114.2 | 368.7 | 311.3 | 260.4 | 223.0 | 203.9 | 200.3 | 203.0 |
| 3826.1 | 37.5° | 3731.4 | 2984.0 | 907.6 | 362.3 | 294.0 | 227.6 | 187.5 | 172.0 | 172.0 | 173.0 |
| 4172.0 | 40° | 4002.7 | 3078.7 | 722.8 | 357.8 | 284.9 | 203.0 | 158.4 | 152.0 | 154.8 | 156.6 |
| 4612.6 | 42.5° | 4333.1 | 3279.9 | 598.1 | 352.3 | 274.9 | 192.1 | 143.8 | 141.1 | 145.7 | 147.5 |
| 5140.6 | 45° | 4703.6 | 3534.8 | 554.4 | 343.2 | 265.8 | 199.4 | 137.5 | 133.8 | 139.3 | 140.2 |
| 5732.3 | 47.5° | 5086.8 | 3784.2 | 548.9 | 333.2 | 256.7 | 210.3 | 135.6 | 127.4 | 133.8 | 134.7 |
| 6364.0 | 50° | 5474.6 | 3947.1 | 554.4 | 317.7 | 242.1 | 210.3 | 136.5 | 121.1 | 126.5 | 129.3 |
| 7019.4 | 52.5° | 5865.2 | 4021.8 | 550.7 | 284.0 | 216.7 | 197.5 | 136.5 | 115.6 | 121.1 | 122.9 |
| 7727.7 | 55° | 6243.9 | 4007.2 | 495.2 | 234.0 | 183.9 | 174.8 | 132.9 | 111.1 | 114.7 | 115.6 |
| 8396.8 | 57.5° | 6543.3 | 3804.2 | 392.3 | 182.1 | 149.3 | 145.7 | 121.1 | 105.6 | 108.3 | 107.4 |
| 9010.3 | 60° | 6699.9 | 3358.2 | 280.4 | 140.2 | 117.4 | 114.7 | 106.5 | 98.3 | 100.1 | 95.6 |
| 9530.1 | 62.5° | 6701.7 | 2768.3 | 187.5 | 111.1 | 93.8 | 91.0 | 91.0 | 88.3 | 86.5 | 77.4 |
| 9932.5 | 65° | 6558.8 | 2113.8 | 124.7 | 88.3 | 75.6 | 71.0 | 76.5 | 75.6 | 69.2 | 56.4 |
| 10055.3 | 67.5° | 6234.8 | 1385.5 | 94.7 | 69.2 | 58.3 | 55.5 | 61.0 | 63.7 | 59.2 | 47.3 |
| 9607.5 | 70° | 5568.4 | 806.5 | 78.3 | 53.7 | 43.7 | 41.0 | 49.2 | 54.6 | 49.2 | 38.2 |
| 8212.0 | 72.5° | 4625.3 | 435.1 | 63.7 | 40.1 | 30.0 | 27.3 | 39.1 | 44.6 | 39.1 | 28.2 |
| 5268.9 | 75° | 3001.3 | 233.0 | 49.2 | 26.4 | 15.5 | 17.3 | 29.1 | 32.8 | 27.3 | 18.2 |
| 1546.6 | 77.5° | 1007.7 | 102.9 | 31.0 | 12.7 | 7.3 | 7.3 | 17.3 | 20.0 | 12.7 | 6.4 |
| 281.3 | 80° | 224.8 | 42.8 | 12.7 | 5.5 | 2.7 | 2.7 | 3.6 | 3.6 | 1.8 | 0.0 |
| 86.5 | 82.5° | 73.7 | 17.3 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 21.8 | 85° | 28.2 | 6.4 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7.3 | 87.5° | 10.9 | 0.9 | 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

| |
|--------|
| 180° |
| 2248.5 |
| 2218.4 |
| 1950.8 |
| 1552.1 |
| 1042.3 |
| 627.2 |
| 465.2 |
| 436.0 |
| 416.0 |
| 388.7 |
| 353.2 |
| 318.6 |
| 283.1 |
| 241.2 |
| 202.1 |
| 172.0 |
| 156.6 |
| 147.5 |
| 141.1 |
| 135.6 |
| 130.2 |
| 122.9 |
| 115.6 |
| 107.4 |
| 94.7 |
| 74.6 |
| 54.6 |
| 46.4 |
| 36.4 |
| 27.3 |
| 16.4 |
| 5.5 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)