

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: P939146

Luminaire Tested: **GALN-SB1C-835-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

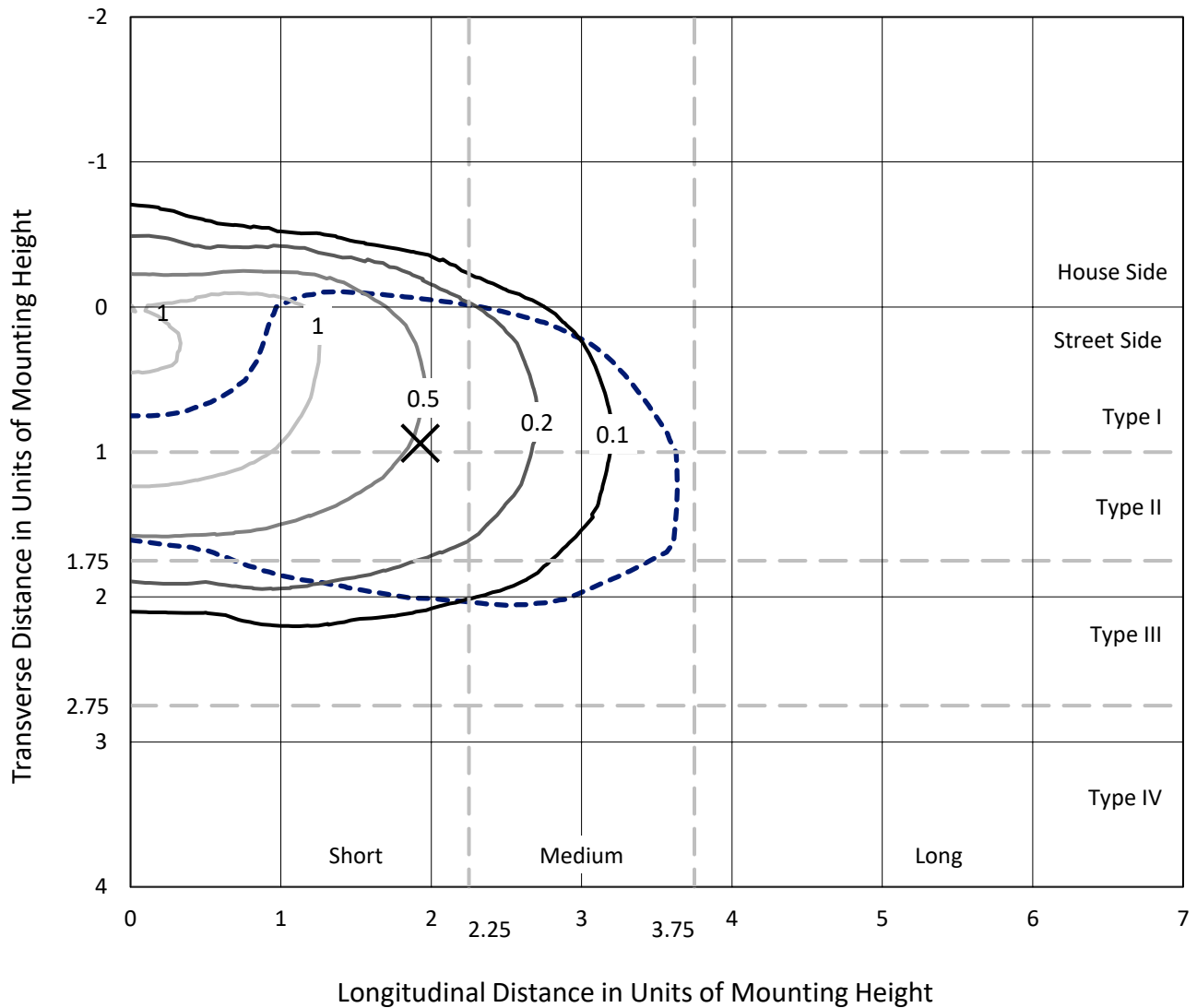
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939146
 CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

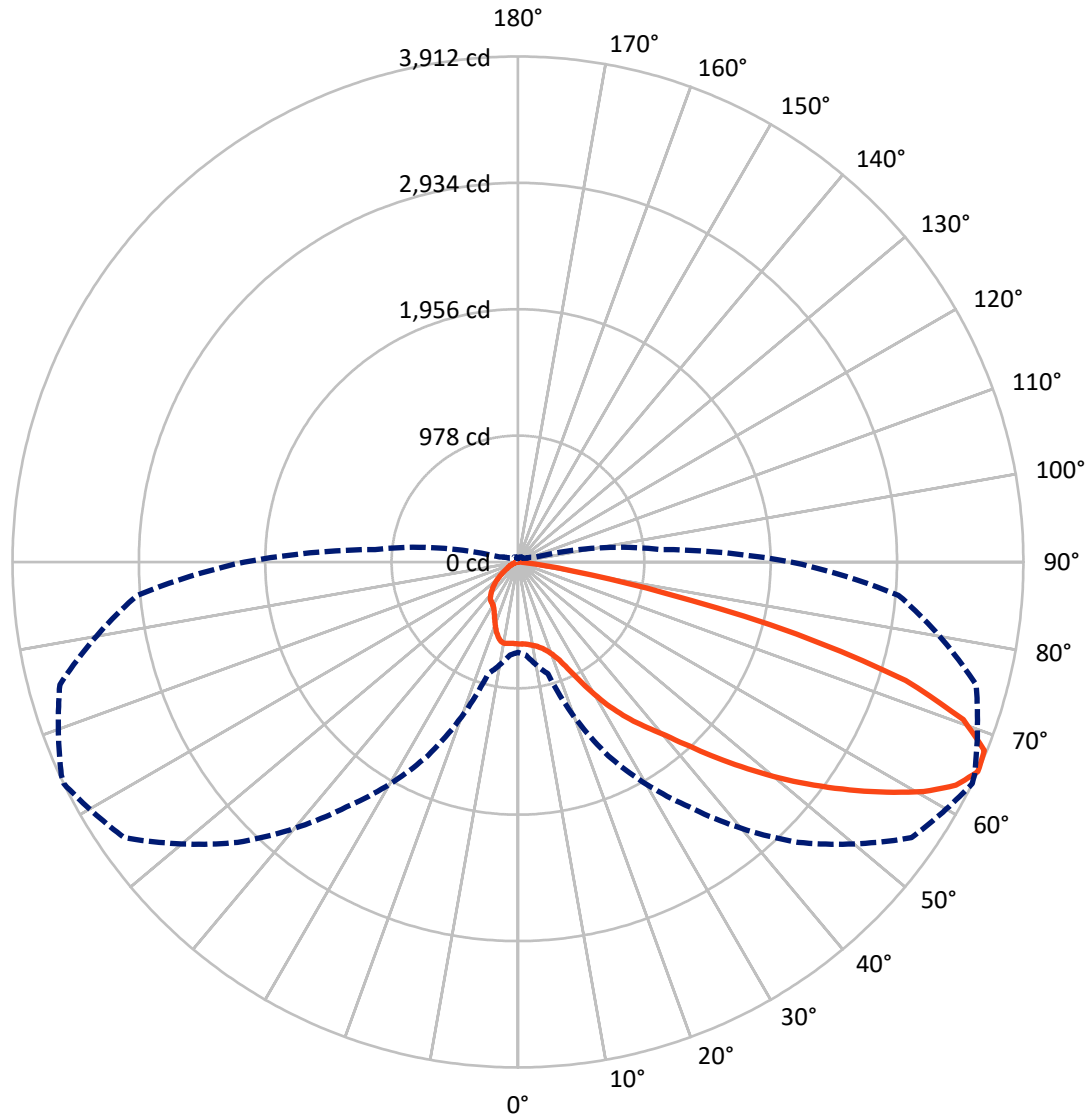
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Short - N/A

REPORT NUMBER: P939146
CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P939146
 CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 728.8 | 0.0 | 728.8 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 4721.2 | 0.0 | 4721.2 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 5450.0 | 0.0 | 5450.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.5 | 1.1 |
| 10°-20° | 158.6 | 2.9 |
| 20°-30° | 300.6 | 5.5 |
| 30°-40° | 608.2 | 11.2 |
| 40°-50° | 1036.1 | 19.0 |
| 50°-60° | 1409.0 | 25.9 |
| 60°-70° | 1323.2 | 24.3 |
| 70°-80° | 530.1 | 9.7 |
| 80°-90° | 25.7 | 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° | 5450.0 | 100.0 |
| 0°-180° | 5450.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P939146

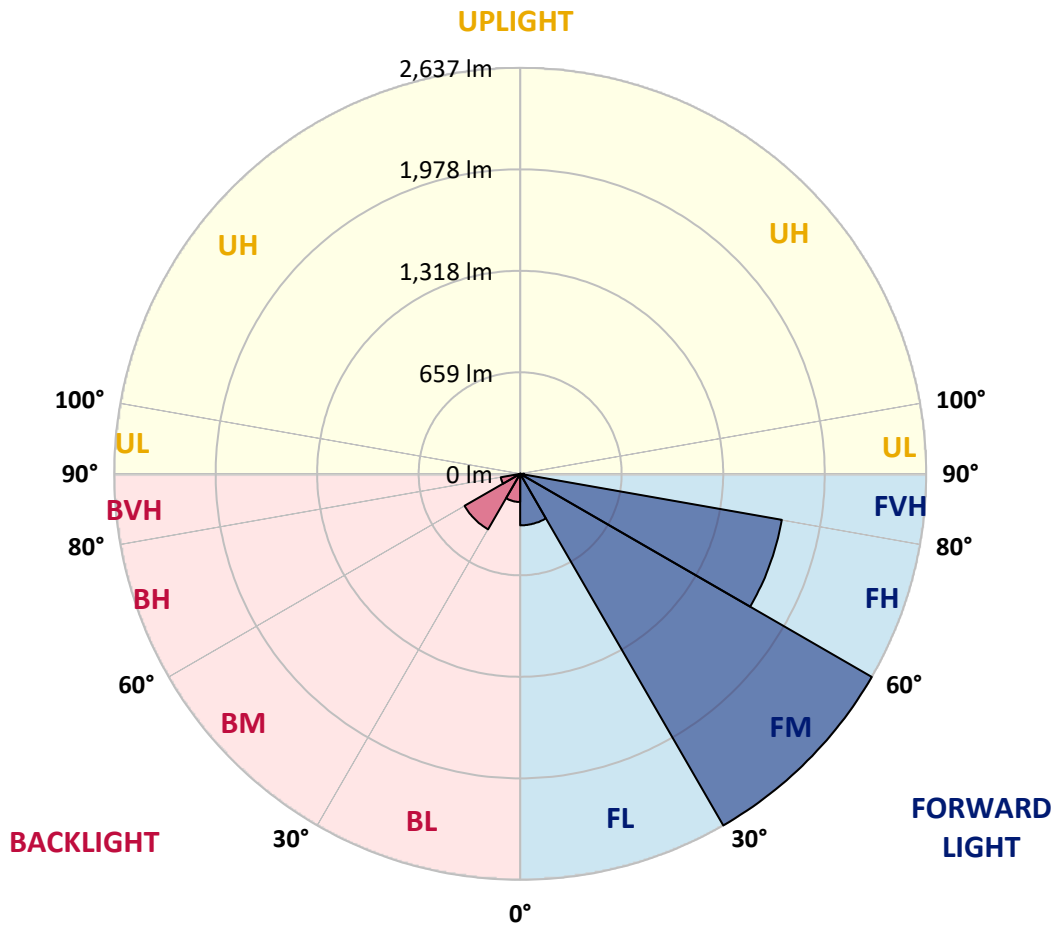
CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 334.7 | 6.1 | | | |
| FM (30°-60°) | 2636.7 | 48.4 | | | |
| FH (60°-80°) | 1725.3 | 31.7 | | | G1/1800 |
| FVH (80°-90°) | 24.4 | 0.4 | | | G1/100 |
| BL (0°-30°) | 183.0 | 3.4 | B1/500 | | |
| BM (30°-60°) | 416.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 127.9 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.3 | 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 III Short



REPORT NUMBER: P939146

CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 |
| 2.5° | 631.7 | 636.1 | 635.0 | 633.9 | 633.5 | 634.3 | 634.6 | 634.3 | 634.3 | 634.3 |
| 5° | 619.6 | 623.3 | 623.3 | 625.9 | 629.5 | 633.9 | 637.2 | 637.9 | 638.6 | 639.7 |
| 7.5° | 596.6 | 599.5 | 601.7 | 610.1 | 619.3 | 631.0 | 640.8 | 645.9 | 646.7 | 650.7 |
| 10° | 580.9 | 584.6 | 588.2 | 597.0 | 610.1 | 627.7 | 644.5 | 656.9 | 658.7 | 668.2 |
| 12.5° | 580.2 | 583.8 | 588.6 | 598.1 | 613.4 | 632.1 | 652.5 | 670.4 | 673.7 | 687.6 |
| 15° | 587.9 | 592.2 | 596.6 | 608.3 | 624.8 | 647.4 | 669.3 | 691.6 | 694.9 | 714.6 |
| 17.5° | 603.6 | 609.4 | 612.7 | 624.4 | 641.9 | 667.1 | 696.0 | 721.6 | 724.5 | 747.5 |
| 20° | 634.6 | 641.6 | 642.7 | 652.2 | 669.3 | 696.4 | 730.7 | 762.5 | 766.2 | 792.5 |
| 22.5° | 698.9 | 708.8 | 700.0 | 704.8 | 720.1 | 747.2 | 784.4 | 824.6 | 829.7 | 859.7 |
| 25° | 812.2 | 826.1 | 803.4 | 795.4 | 802.0 | 830.1 | 876.9 | 927.6 | 933.5 | 957.6 |
| 27.5° | 1034.7 | 1016.8 | 982.4 | 948.8 | 929.1 | 945.2 | 997.8 | 1060.6 | 1067.9 | 1091.3 |
| 30° | 1279.1 | 1263.4 | 1217.0 | 1142.5 | 1095.7 | 1093.1 | 1141.7 | 1211.9 | 1220.3 | 1242.6 |
| 32.5° | 1523.9 | 1508.9 | 1458.5 | 1366.8 | 1285.7 | 1245.5 | 1279.1 | 1356.9 | 1361.3 | 1375.6 |
| 35° | 1764.7 | 1749.3 | 1698.9 | 1605.0 | 1505.3 | 1413.9 | 1407.3 | 1495.0 | 1496.5 | 1511.5 |
| 37.5° | 2006.9 | 1994.1 | 1940.4 | 1848.3 | 1750.1 | 1624.0 | 1563.0 | 1625.8 | 1627.7 | 1642.3 |
| 40° | 2179.7 | 2185.2 | 2148.3 | 2077.0 | 1992.6 | 1854.9 | 1737.6 | 1765.0 | 1754.1 | 1778.6 |
| 42.5° | 2328.0 | 2339.0 | 2306.9 | 2271.0 | 2222.1 | 2100.8 | 1953.9 | 1949.2 | 1931.6 | 1944.8 |
| 45° | 2456.3 | 2465.4 | 2436.6 | 2428.2 | 2427.1 | 2341.9 | 2190.3 | 2161.8 | 2137.3 | 2134.8 |
| 47.5° | 2503.4 | 2521.0 | 2533.4 | 2561.5 | 2616.3 | 2580.5 | 2434.7 | 2390.5 | 2363.1 | 2343.0 |
| 50° | 2521.3 | 2540.0 | 2582.3 | 2664.2 | 2793.9 | 2809.2 | 2678.1 | 2628.4 | 2594.8 | 2558.2 |
| 52.5° | 2497.2 | 2530.5 | 2587.4 | 2725.2 | 2913.3 | 2992.6 | 2911.5 | 2868.0 | 2829.7 | 2770.1 |
| 55° | 2355.1 | 2388.3 | 2504.9 | 2724.5 | 2972.9 | 3121.2 | 3132.2 | 3112.8 | 3069.7 | 2975.8 |
| 57.5° | 2055.5 | 2104.8 | 2289.3 | 2631.7 | 2971.8 | 3231.9 | 3348.5 | 3362.4 | 3314.1 | 3179.7 |
| 60° | 1640.4 | 1707.3 | 1932.4 | 2426.0 | 2880.1 | 3291.9 | 3538.1 | 3607.5 | 3556.4 | 3380.6 |
| 62.5° | 1144.7 | 1222.1 | 1435.1 | 2103.7 | 2670.4 | 3248.7 | 3676.6 | 3804.8 | 3766.1 | 3560.4 |
| 65° | 698.2 | 723.0 | 894.8 | 1655.4 | 2313.8 | 3068.3 | 3719.3 | 3911.5 | 3898.7 | 3670.4 |
| 67.5° | 465.1 | 485.9 | 535.2 | 1135.2 | 1796.1 | 2707.6 | 3617.0 | 3892.9 | 3896.5 | 3652.5 |
| 70° | 280.2 | 298.1 | 330.3 | 660.2 | 1164.0 | 2143.2 | 3300.3 | 3655.4 | 3676.6 | 3413.2 |
| 72.5° | 115.5 | 127.5 | 156.7 | 299.2 | 602.8 | 1360.2 | 2628.0 | 3138.4 | 3187.7 | 2869.9 |
| 75° | 65.4 | 71.6 | 92.1 | 150.2 | 261.6 | 633.9 | 1591.9 | 2227.9 | 2300.6 | 1978.0 |
| 77.5° | 43.5 | 46.4 | 59.6 | 97.2 | 147.2 | 216.3 | 680.3 | 1160.7 | 1299.6 | 1080.4 |
| 80° | 29.2 | 31.8 | 40.9 | 65.0 | 95.7 | 92.8 | 216.7 | 430.0 | 529.0 | 371.2 |
| 82.5° | 19.7 | 20.1 | 29.2 | 42.7 | 60.6 | 44.9 | 63.9 | 133.7 | 168.1 | 107.4 |
| 85° | 11.3 | 11.0 | 21.6 | 24.8 | 27.0 | 18.6 | 19.4 | 40.2 | 52.6 | 45.3 |
| 87.5° | 1.5 | 2.2 | 8.4 | 6.6 | 3.7 | 4.0 | 4.0 | 6.9 | 10.2 | 11.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P939146
 CATALOG NUMBER: GALN-SB1C-835-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 633.9 | 0° | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 | 633.9 |
| 634.6 | 2.5° | 634.6 | 634.3 | 633.2 | 632.1 | 629.5 | 628.0 | 628.8 | 628.0 | 627.7 | 628.0 |
| 639.4 | 5° | 639.4 | 638.3 | 635.4 | 631.7 | 626.6 | 620.4 | 616.4 | 610.5 | 605.0 | 601.7 |
| 652.2 | 7.5° | 652.2 | 651.1 | 647.0 | 636.8 | 620.4 | 594.4 | 570.7 | 549.9 | 534.1 | 525.0 |
| 672.6 | 10° | 672.6 | 670.8 | 664.6 | 641.9 | 598.8 | 542.2 | 495.1 | 456.0 | 430.4 | 418.3 |
| 696.7 | 12.5° | 696.7 | 694.5 | 683.6 | 637.2 | 557.9 | 469.5 | 404.4 | 361.0 | 337.2 | 326.6 |
| 724.5 | 15° | 725.2 | 722.3 | 700.8 | 614.5 | 498.3 | 389.1 | 329.6 | 297.0 | 281.7 | 272.2 |
| 759.9 | 17.5° | 760.7 | 755.6 | 713.5 | 580.5 | 433.7 | 327.7 | 283.5 | 259.0 | 245.5 | 236.4 |
| 806.3 | 20° | 806.7 | 798.3 | 723.8 | 540.0 | 374.1 | 289.0 | 252.5 | 232.0 | 221.8 | 213.7 |
| 872.1 | 22.5° | 871.0 | 859.0 | 736.2 | 496.2 | 332.1 | 262.3 | 229.4 | 214.5 | 206.1 | 196.9 |
| 963.8 | 25° | 950.7 | 936.4 | 751.5 | 455.6 | 303.2 | 239.3 | 212.6 | 200.2 | 190.4 | 179.8 |
| 1084.0 | 27.5° | 1062.1 | 1036.5 | 769.8 | 422.4 | 278.4 | 219.6 | 197.3 | 183.4 | 172.1 | 163.3 |
| 1220.3 | 30° | 1186.3 | 1144.3 | 785.9 | 402.3 | 255.7 | 201.3 | 177.2 | 163.3 | 152.7 | 146.5 |
| 1342.7 | 32.5° | 1304.0 | 1247.0 | 796.5 | 393.5 | 235.3 | 180.5 | 155.3 | 140.3 | 132.3 | 130.4 |
| 1462.5 | 35° | 1415.0 | 1339.8 | 795.4 | 385.1 | 217.0 | 159.7 | 133.7 | 118.4 | 112.2 | 113.3 |
| 1591.5 | 37.5° | 1542.9 | 1438.8 | 787.7 | 371.9 | 202.0 | 140.7 | 115.1 | 101.6 | 96.1 | 96.5 |
| 1748.2 | 40° | 1691.6 | 1553.1 | 783.0 | 347.1 | 185.6 | 123.1 | 99.7 | 88.8 | 84.8 | 83.3 |
| 1913.4 | 42.5° | 1850.2 | 1663.8 | 783.7 | 319.0 | 165.1 | 107.4 | 89.1 | 80.0 | 76.4 | 75.3 |
| 2097.1 | 45° | 2009.5 | 1769.4 | 784.8 | 289.7 | 143.6 | 95.4 | 81.5 | 73.8 | 71.6 | 70.1 |
| 2283.5 | 47.5° | 2159.3 | 1859.3 | 764.3 | 258.3 | 122.4 | 86.2 | 75.3 | 70.1 | 68.3 | 66.5 |
| 2470.5 | 50° | 2298.8 | 1919.2 | 715.0 | 221.8 | 105.6 | 78.9 | 70.5 | 66.9 | 65.0 | 63.2 |
| 2640.1 | 52.5° | 2407.3 | 1928.7 | 633.5 | 184.1 | 93.9 | 73.4 | 67.6 | 64.3 | 62.1 | 60.3 |
| 2777.1 | 55° | 2455.6 | 1869.2 | 517.7 | 149.1 | 84.8 | 68.7 | 64.7 | 61.4 | 58.8 | 57.0 |
| 2884.8 | 57.5° | 2443.1 | 1743.8 | 403.7 | 119.8 | 76.0 | 63.9 | 61.0 | 58.8 | 55.9 | 53.0 |
| 2972.2 | 60° | 2382.1 | 1576.1 | 304.3 | 99.7 | 68.0 | 58.8 | 57.0 | 55.2 | 51.1 | 46.8 |
| 3005.8 | 62.5° | 2276.5 | 1365.3 | 217.0 | 82.6 | 59.2 | 53.0 | 52.2 | 50.8 | 44.9 | 36.9 |
| 2956.1 | 65° | 2115.0 | 1109.2 | 146.1 | 68.7 | 50.8 | 46.4 | 46.8 | 44.2 | 36.5 | 27.4 |
| 2774.1 | 67.5° | 1879.0 | 811.1 | 93.5 | 56.3 | 42.4 | 38.7 | 39.1 | 37.6 | 31.1 | 23.4 |
| 2429.2 | 70° | 1578.3 | 537.1 | 61.0 | 42.7 | 34.0 | 30.0 | 32.2 | 32.5 | 26.3 | 19.0 |
| 1864.4 | 72.5° | 1157.1 | 317.1 | 42.7 | 31.8 | 24.8 | 20.8 | 26.3 | 27.0 | 21.2 | 14.2 |
| 1121.6 | 75° | 659.5 | 150.5 | 32.2 | 23.0 | 15.3 | 14.6 | 20.5 | 20.5 | 14.6 | 9.5 |
| 485.6 | 77.5° | 276.9 | 62.8 | 22.7 | 15.0 | 8.8 | 8.4 | 13.9 | 12.8 | 7.3 | 4.4 |
| 118.4 | 80° | 80.0 | 28.1 | 12.1 | 7.3 | 3.7 | 3.3 | 5.5 | 4.0 | 1.8 | 0.7 |
| 44.9 | 82.5° | 31.4 | 12.4 | 4.7 | 2.9 | 1.5 | 1.5 | 0.7 | 0.0 | 0.0 | 0.0 |
| 25.6 | 85° | 18.6 | 5.1 | 2.2 | 1.1 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5.5 | 87.5° | 4.7 | 1.1 | 0.7 | 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> |
| 633.9 |
| 629.5 |
| 602.5 |
| 525.4 |
| 417.2 |
| 325.5 |
| 272.6 |
| 235.7 |
| 212.3 |
| 195.5 |
| 178.7 |
| 161.5 |
| 145.4 |
| 131.5 |
| 113.3 |
| 97.9 |
| 82.9 |
| 74.9 |
| 70.1 |
| 66.5 |
| 63.2 |
| 59.9 |
| 56.6 |
| 52.6 |
| 46.0 |
| 36.2 |
| 26.7 |
| 22.3 |
| 18.3 |
| 13.5 |
| 8.8 |
| 4.4 |
| 0.7 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)