

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: P954696

Luminaire Tested: **GALN-SB7D-840-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954696
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-SB7D-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA 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: 57630 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

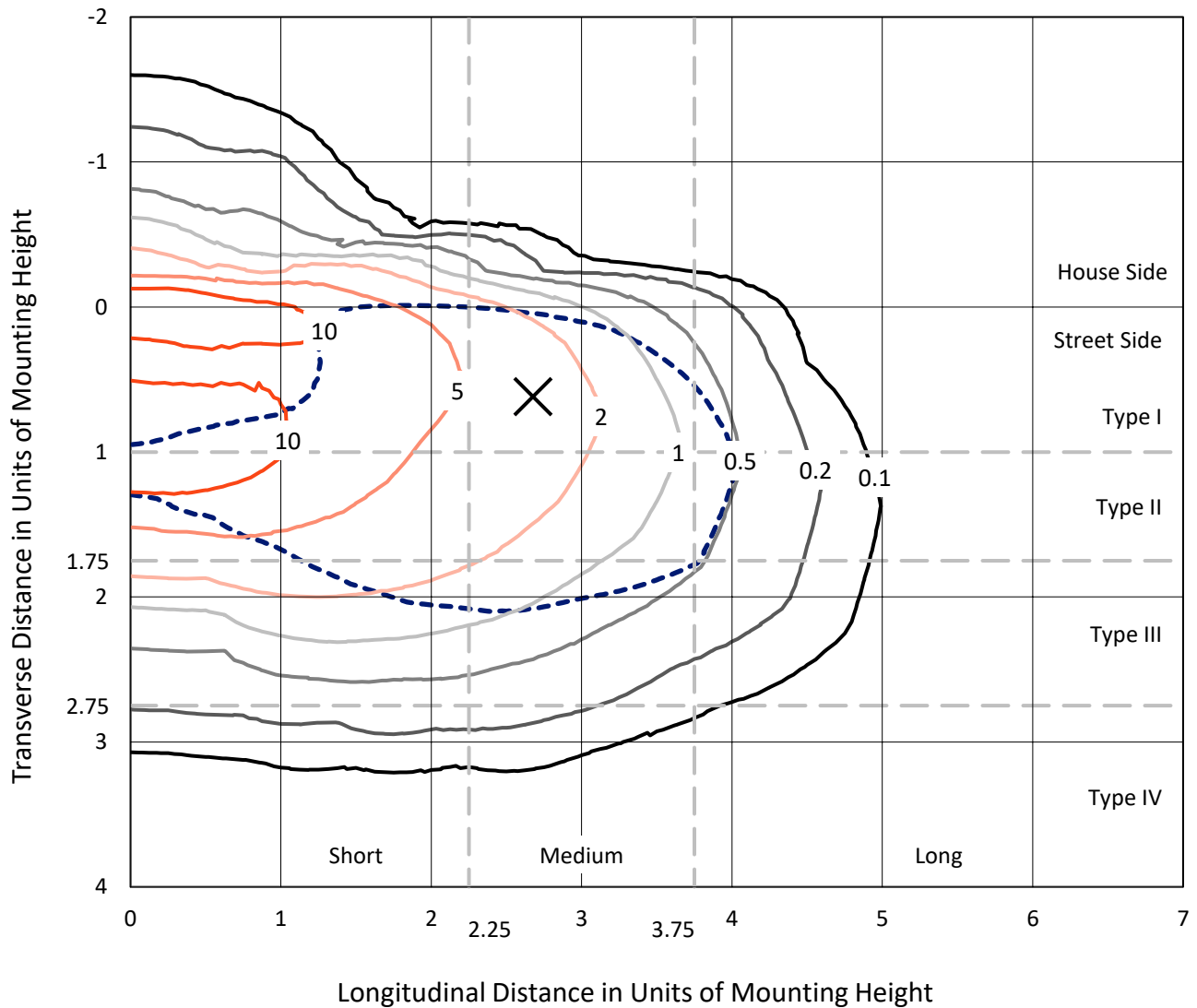
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P954696
 CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

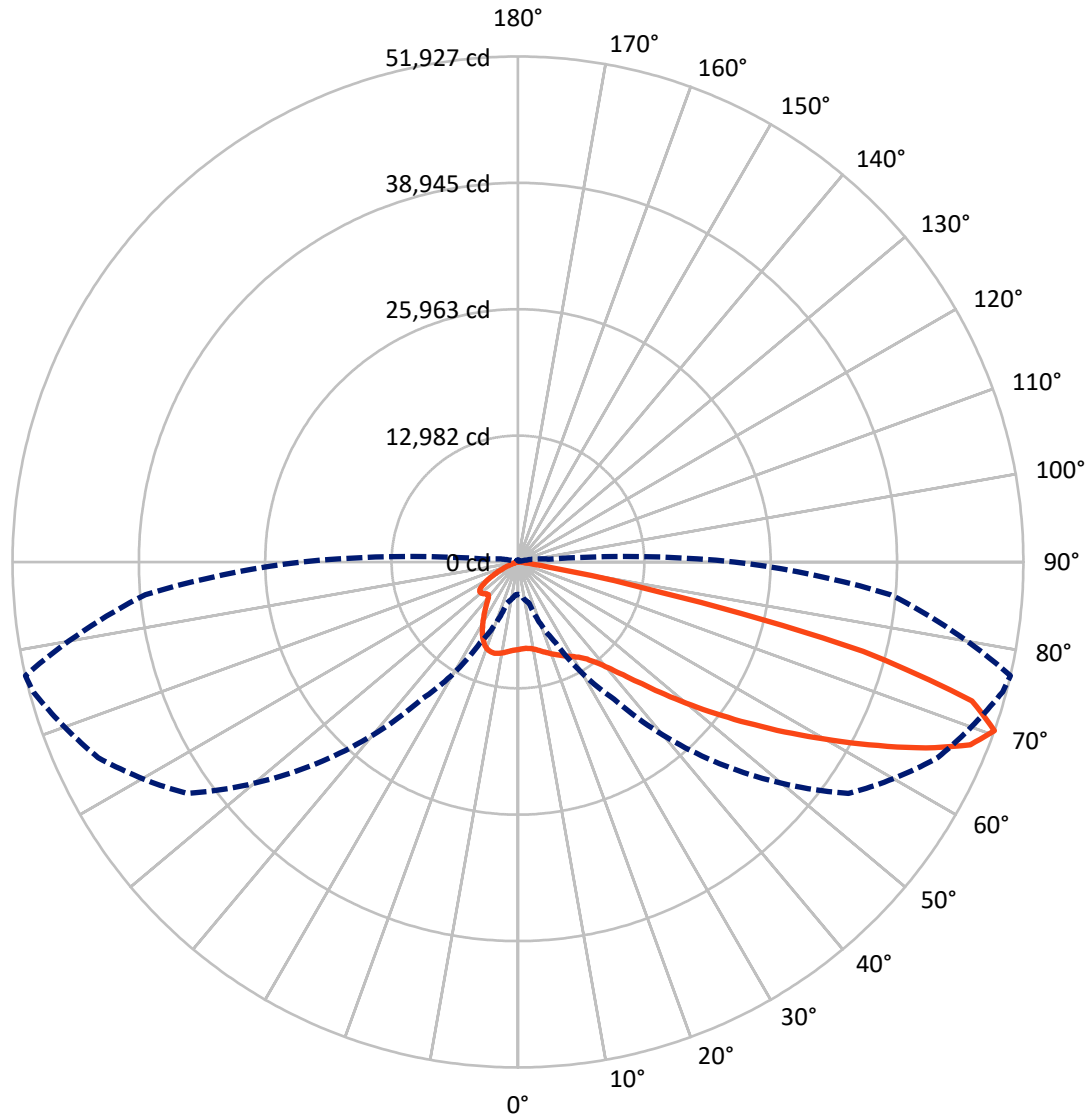
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P954696
CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P954696
 CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6075.0 | 0.0 | 6075.0 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 51555.0 | 0.0 | 51555.0 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 57630.0 | 0.0 | 57630.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 774.7 | 1.3 |
| 10°-20° | 1839.1 | 3.2 |
| 20°-30° | 2844.6 | 4.9 |
| 30°-40° | 5161.7 | 9.0 |
| 40°-50° | 9743.3 | 16.9 |
| 50°-60° | 14078.3 | 24.4 |
| 60°-70° | 14986.0 | 26.0 |
| 70°-80° | 7941.5 | 13.8 |
| 80°-90° | 260.8 | 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° | 57630.0 | 100.0 |
| 0°-180° | 57630.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P954696

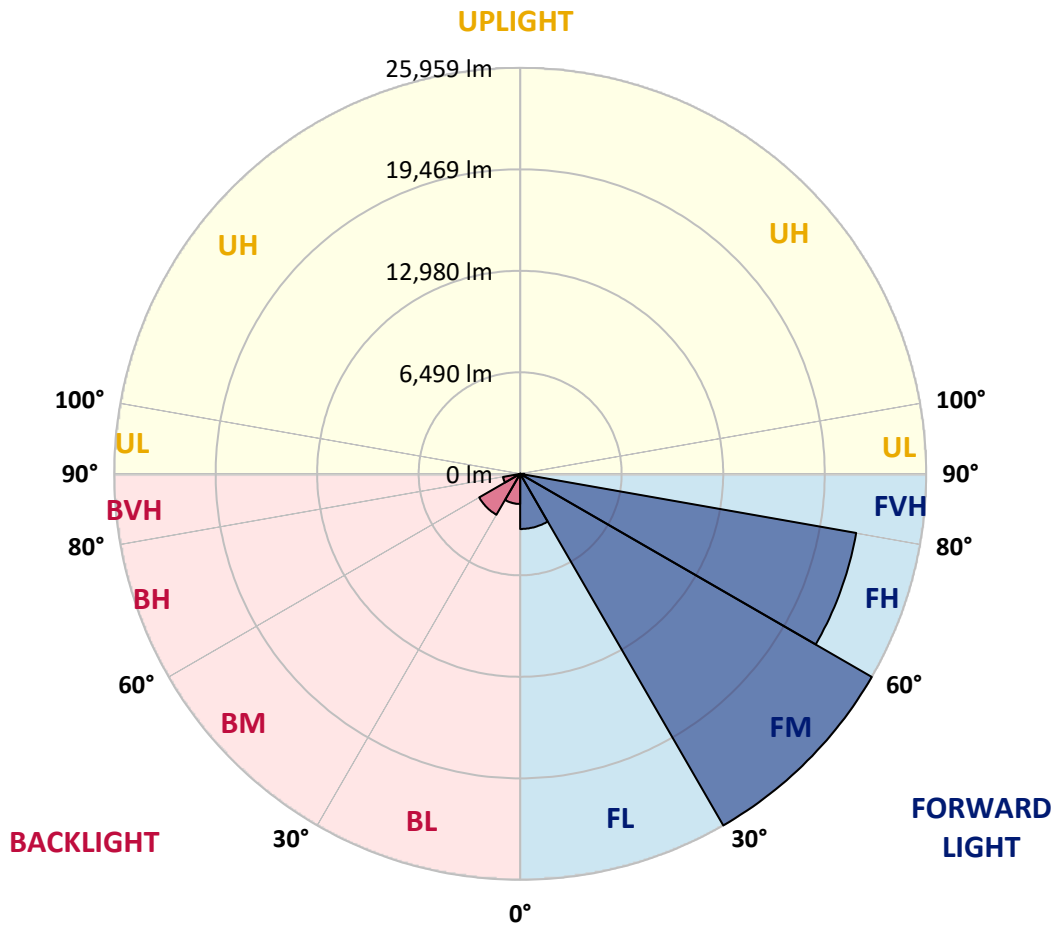
CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3528.3 | 6.1 | | | |
| FM (30°-60°) | 25959.1 | 45.0 | | | |
| FH (60°-80°) | 21813.8 | 37.9 | | | G5 |
| FVH (80°-90°) | 253.7 | 0.4 | | | G3/500 |
| BL (0°-30°) | 1930.1 | 3.3 | B3/2500 | | |
| BM (30°-60°) | 3024.2 | 5.2 | B3/5000 | | |
| BH (60°-80°) | 1113.7 | 1.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 7.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P954696
 CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 |
| 2.5° | 8439.7 | 8516.1 | 8505.2 | 8556.2 | 8574.4 | 8647.1 | 8719.9 | 8818.2 | 8927.4 | 8923.7 |
| 5° | 7962.9 | 8039.4 | 8057.6 | 8126.7 | 8214.1 | 8326.9 | 8476.1 | 8672.6 | 8876.4 | 8909.2 |
| 7.5° | 7398.8 | 7478.9 | 7526.2 | 7664.5 | 7824.6 | 8057.6 | 8301.4 | 8588.9 | 8927.4 | 8974.7 |
| 10° | 6834.7 | 6907.5 | 6969.4 | 7165.9 | 7420.7 | 7766.4 | 8163.1 | 8578.0 | 9032.9 | 9102.1 |
| 12.5° | 6485.4 | 6554.5 | 6623.6 | 6794.7 | 7111.3 | 7533.5 | 8072.1 | 8628.9 | 9207.6 | 9305.9 |
| 15° | 6361.6 | 6423.5 | 6478.1 | 6630.9 | 6925.7 | 7406.1 | 8053.9 | 8734.5 | 9429.6 | 9560.6 |
| 17.5° | 6379.8 | 6412.6 | 6449.0 | 6565.4 | 6852.9 | 7347.9 | 8086.7 | 8916.5 | 9691.6 | 9808.1 |
| 20° | 6485.4 | 6503.6 | 6507.2 | 6587.3 | 6842.0 | 7340.6 | 8152.2 | 9091.1 | 9939.1 | 10095.6 |
| 22.5° | 6620.0 | 6627.3 | 6620.0 | 6674.6 | 6911.2 | 7395.2 | 8239.5 | 9302.2 | 10215.7 | 10361.3 |
| 25° | 7249.6 | 7111.3 | 6936.6 | 6831.1 | 7027.6 | 7500.7 | 8370.5 | 9586.1 | 10517.8 | 10659.7 |
| 27.5° | 9204.0 | 8807.3 | 8181.3 | 7478.9 | 7267.8 | 7653.6 | 8552.5 | 9873.6 | 10823.5 | 10950.9 |
| 30° | 12377.5 | 11857.1 | 10794.4 | 9211.2 | 8039.4 | 7973.9 | 8789.1 | 10161.1 | 11147.4 | 11285.7 |
| 32.5° | 15558.3 | 15430.9 | 14204.5 | 12013.6 | 9775.3 | 8687.2 | 9182.1 | 10550.5 | 11576.8 | 11686.0 |
| 35° | 18775.5 | 18517.1 | 17512.6 | 15347.2 | 12450.3 | 10139.3 | 9837.2 | 11060.0 | 12140.9 | 12264.7 |
| 37.5° | 21239.4 | 21082.9 | 20460.5 | 18677.2 | 15623.8 | 12381.1 | 10958.1 | 11849.8 | 12959.8 | 13098.1 |
| 40° | 23415.7 | 23342.9 | 23131.8 | 21956.3 | 19172.2 | 15314.5 | 12701.4 | 13072.6 | 14095.3 | 14259.0 |
| 42.5° | 25126.2 | 25297.2 | 25417.3 | 25089.8 | 22829.8 | 18662.7 | 15045.1 | 14790.4 | 15678.4 | 15845.8 |
| 45° | 26876.7 | 26935.0 | 27419.0 | 27892.1 | 26461.8 | 22163.8 | 17687.3 | 16803.0 | 17647.3 | 17854.7 |
| 47.5° | 28001.3 | 28234.2 | 29085.8 | 29919.2 | 29515.3 | 25635.7 | 20526.0 | 19179.5 | 19929.2 | 20318.6 |
| 50° | 28085.0 | 28525.4 | 29697.2 | 31149.4 | 31738.9 | 28940.3 | 23612.2 | 21887.2 | 22684.2 | 23113.6 |
| 52.5° | 26691.1 | 27375.3 | 29191.4 | 31316.8 | 32939.9 | 31738.9 | 26803.9 | 24594.8 | 25617.5 | 26178.0 |
| 55° | 20464.2 | 21359.5 | 27288.0 | 30406.9 | 32987.2 | 33860.7 | 29912.0 | 27415.4 | 28885.7 | 29518.9 |
| 57.5° | 17829.3 | 18280.5 | 21454.1 | 28827.4 | 32110.1 | 34715.9 | 32721.6 | 30101.2 | 32441.3 | 33227.4 |
| 60° | 14834.1 | 15427.3 | 17993.0 | 26243.5 | 30920.1 | 34799.6 | 35203.6 | 33565.9 | 36295.4 | 37179.8 |
| 62.5° | 10081.0 | 10725.2 | 13276.4 | 21803.5 | 29293.3 | 34759.6 | 37238.0 | 37132.5 | 40579.0 | 41528.8 |
| 65° | 6245.2 | 6649.1 | 8330.5 | 17803.8 | 27018.7 | 34803.3 | 39367.0 | 41463.3 | 45099.0 | 46063.5 |
| 67.5° | 4935.0 | 5120.6 | 5997.7 | 13669.5 | 23099.1 | 33820.6 | 41492.4 | 45535.8 | 49353.5 | 50117.7 |
| 70° | 3315.5 | 3428.3 | 4363.6 | 9163.9 | 17185.1 | 29286.0 | 41452.4 | 47581.1 | 51544.4 | 51926.5 |
| 72.5° | 1746.9 | 1834.2 | 2551.2 | 4243.5 | 10379.5 | 20817.2 | 34941.6 | 45135.4 | 49364.4 | 48789.4 |
| 75° | 873.4 | 1019.0 | 1717.8 | 2154.5 | 4432.8 | 11609.6 | 21697.9 | 35585.7 | 38853.9 | 36626.6 |
| 77.5° | 662.4 | 800.7 | 1419.4 | 1419.4 | 1543.1 | 3908.7 | 9189.4 | 19408.8 | 17902.1 | 14906.9 |
| 80° | 422.2 | 545.9 | 1241.0 | 1073.6 | 644.2 | 993.5 | 2394.7 | 5437.2 | 3803.1 | 2893.3 |
| 82.5° | 247.5 | 356.7 | 1033.6 | 709.7 | 360.3 | 367.6 | 676.9 | 1157.3 | 986.3 | 767.9 |
| 85° | 98.3 | 232.9 | 709.7 | 280.2 | 141.9 | 91.0 | 203.8 | 247.5 | 203.8 | 152.9 |
| 87.5° | 0.0 | 54.6 | 123.7 | 0.0 | 10.9 | 7.3 | 14.6 | 18.2 | 18.2 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P954696
 CATALOG NUMBER: GALN-SB7D-840-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8989.2 | 0° | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 | 8989.2 |
| 8996.5 | 2.5° | 9029.3 | 9036.6 | 9058.4 | 9062.0 | 9011.1 | 8945.6 | 8920.1 | 8909.2 | 8865.5 | 8861.9 |
| 9054.7 | 5° | 9138.5 | 9171.2 | 9138.5 | 9043.8 | 8818.2 | 8501.6 | 8261.4 | 8064.8 | 7886.5 | 7831.9 |
| 9254.9 | 7.5° | 9356.8 | 9389.6 | 9291.3 | 8920.1 | 8352.3 | 7722.7 | 7155.0 | 6754.7 | 6394.4 | 6259.7 |
| 9498.8 | 10° | 9669.8 | 9713.5 | 9404.1 | 8654.4 | 7650.0 | 6638.2 | 5677.4 | 5000.5 | 4472.8 | 4258.1 |
| 9829.9 | 12.5° | 10062.9 | 10081.0 | 9466.0 | 8250.4 | 6736.5 | 5291.6 | 3930.5 | 3206.3 | 2736.8 | 2562.1 |
| 10230.3 | 15° | 10495.9 | 10470.5 | 9473.3 | 7700.9 | 5491.8 | 3741.3 | 2565.8 | 2107.2 | 1917.9 | 1859.7 |
| 10630.6 | 17.5° | 10950.9 | 10845.3 | 9327.7 | 6907.5 | 4127.0 | 2558.5 | 1903.4 | 1794.2 | 1761.5 | 1746.9 |
| 11027.3 | 20° | 11398.5 | 11161.9 | 9062.0 | 5870.3 | 2962.4 | 1910.7 | 1728.7 | 1695.9 | 1677.7 | 1670.5 |
| 11427.6 | 22.5° | 11806.1 | 11402.1 | 8607.1 | 4665.7 | 2150.9 | 1688.7 | 1634.1 | 1605.0 | 1572.2 | 1557.6 |
| 11817.0 | 25° | 12202.8 | 11540.4 | 7966.6 | 3541.1 | 1721.4 | 1579.5 | 1535.8 | 1481.2 | 1437.6 | 1419.4 |
| 12235.6 | 27.5° | 12588.6 | 11627.8 | 7165.9 | 2620.3 | 1535.8 | 1477.6 | 1397.5 | 1321.1 | 1288.3 | 1281.1 |
| 12683.2 | 30° | 12999.8 | 11656.9 | 6256.1 | 1954.3 | 1423.0 | 1350.2 | 1233.7 | 1146.4 | 1128.2 | 1131.8 |
| 13287.3 | 32.5° | 13502.1 | 11700.6 | 5339.0 | 1601.3 | 1328.4 | 1197.4 | 1059.1 | 968.1 | 953.5 | 968.1 |
| 14168.1 | 35° | 14102.6 | 11787.9 | 4454.6 | 1473.9 | 1244.7 | 1040.9 | 891.6 | 815.2 | 800.7 | 811.6 |
| 15296.3 | 37.5° | 14917.8 | 11929.8 | 3628.4 | 1448.5 | 1175.5 | 909.8 | 749.7 | 687.8 | 687.8 | 691.5 |
| 16679.2 | 40° | 16002.3 | 12308.3 | 2889.7 | 1430.3 | 1139.1 | 811.6 | 633.3 | 607.8 | 618.7 | 626.0 |
| 18440.7 | 42.5° | 17323.4 | 13112.6 | 2391.1 | 1408.4 | 1099.1 | 767.9 | 575.0 | 564.1 | 582.3 | 589.6 |
| 20551.5 | 45° | 18804.6 | 14131.7 | 2216.4 | 1372.0 | 1062.7 | 797.0 | 549.5 | 535.0 | 556.8 | 560.5 |
| 22917.1 | 47.5° | 20336.8 | 15128.9 | 2194.5 | 1332.0 | 1026.3 | 840.7 | 542.3 | 509.5 | 535.0 | 538.6 |
| 25442.8 | 50° | 21887.2 | 15780.3 | 2216.4 | 1270.1 | 968.1 | 840.7 | 545.9 | 484.0 | 505.9 | 516.8 |
| 28063.2 | 52.5° | 23448.4 | 16078.7 | 2201.8 | 1135.5 | 866.2 | 789.7 | 545.9 | 462.2 | 484.0 | 491.3 |
| 30894.6 | 55° | 24962.4 | 16020.5 | 1979.8 | 935.3 | 735.2 | 698.8 | 531.3 | 444.0 | 458.6 | 462.2 |
| 33569.5 | 57.5° | 26159.8 | 15208.9 | 1568.6 | 727.9 | 596.9 | 582.3 | 484.0 | 422.2 | 433.1 | 429.4 |
| 36022.5 | 60° | 26785.7 | 13425.6 | 1120.9 | 560.5 | 469.5 | 458.6 | 425.8 | 393.1 | 400.3 | 382.1 |
| 38100.5 | 62.5° | 26793.0 | 11067.3 | 749.7 | 444.0 | 374.9 | 363.9 | 363.9 | 353.0 | 345.7 | 309.3 |
| 39709.1 | 65° | 26221.6 | 8450.6 | 498.6 | 353.0 | 302.1 | 283.9 | 305.7 | 302.1 | 276.6 | 225.6 |
| 40200.5 | 67.5° | 24926.0 | 5539.1 | 378.5 | 276.6 | 232.9 | 222.0 | 243.8 | 254.8 | 236.6 | 189.2 |
| 38409.9 | 70° | 22262.0 | 3224.5 | 313.0 | 214.7 | 174.7 | 163.8 | 196.5 | 218.4 | 196.5 | 152.9 |
| 32830.7 | 72.5° | 18491.6 | 1739.6 | 254.8 | 160.1 | 120.1 | 109.2 | 156.5 | 178.3 | 156.5 | 112.8 |
| 21064.7 | 75° | 11999.0 | 931.7 | 196.5 | 105.5 | 61.9 | 69.1 | 116.5 | 131.0 | 109.2 | 72.8 |
| 6183.3 | 77.5° | 4028.8 | 411.2 | 123.7 | 51.0 | 29.1 | 29.1 | 69.1 | 80.1 | 51.0 | 25.5 |
| 1124.6 | 80° | 898.9 | 171.1 | 51.0 | 21.8 | 10.9 | 10.9 | 14.6 | 14.6 | 7.3 | 0.0 |
| 345.7 | 82.5° | 294.8 | 69.1 | 21.8 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.3 | 85° | 112.8 | 25.5 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 29.1 | 87.5° | 43.7 | 3.6 | 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° |
| 8989.2 |
| 8869.1 |
| 7799.2 |
| 6205.1 |
| 4167.1 |
| 2507.5 |
| 1859.7 |
| 1743.3 |
| 1663.2 |
| 1554.0 |
| 1412.1 |
| 1273.8 |
| 1131.8 |
| 964.4 |
| 807.9 |
| 687.8 |
| 626.0 |
| 589.6 |
| 564.1 |
| 542.3 |
| 520.4 |
| 491.3 |
| 462.2 |
| 429.4 |
| 378.5 |
| 298.4 |
| 218.4 |
| 185.6 |
| 145.6 |
| 109.2 |
| 65.5 |
| 21.8 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)