

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: P944766

Luminaire Tested: **GALN-SB9D-840-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944766
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-SB9D-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69532 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

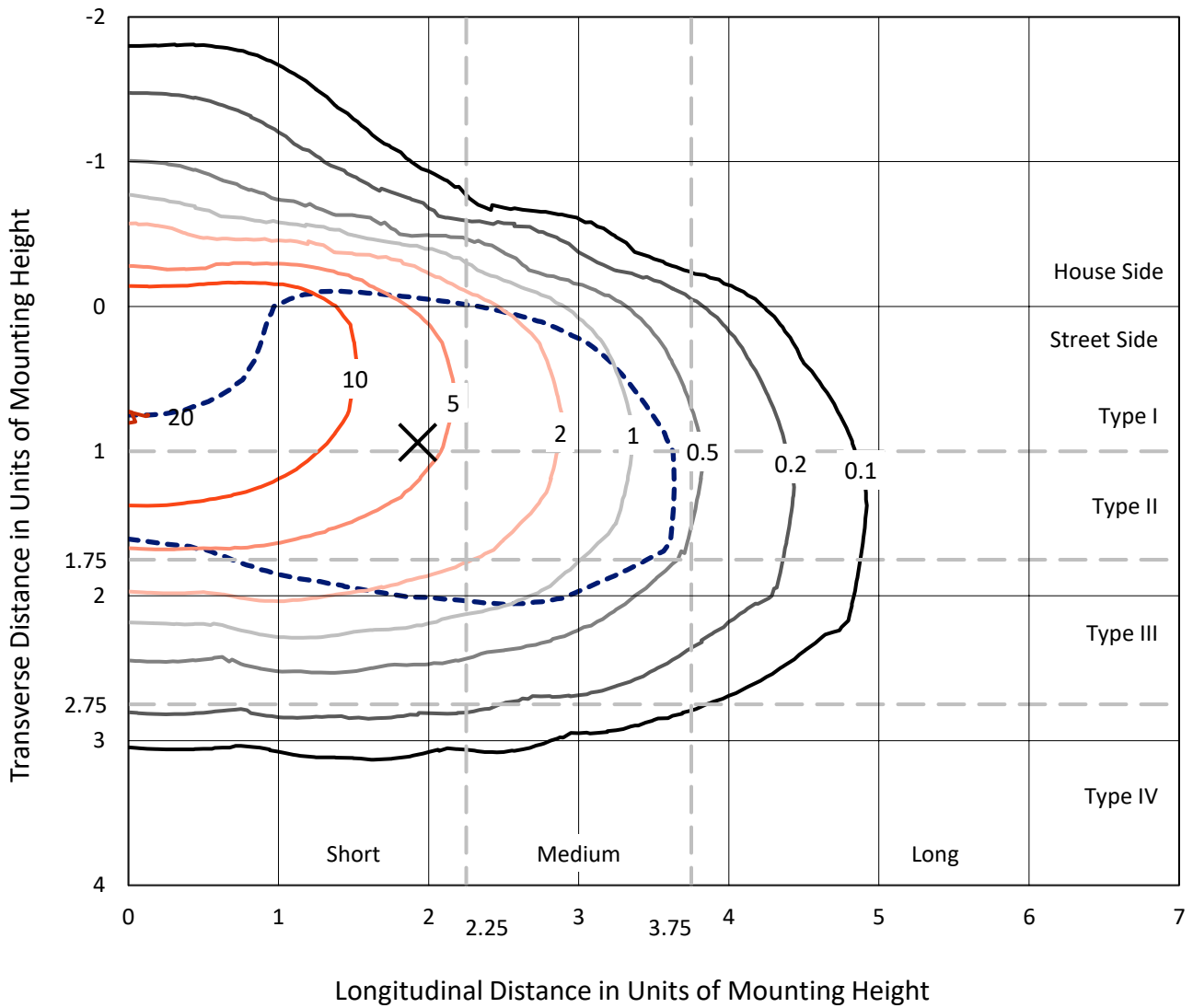
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944766
 CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

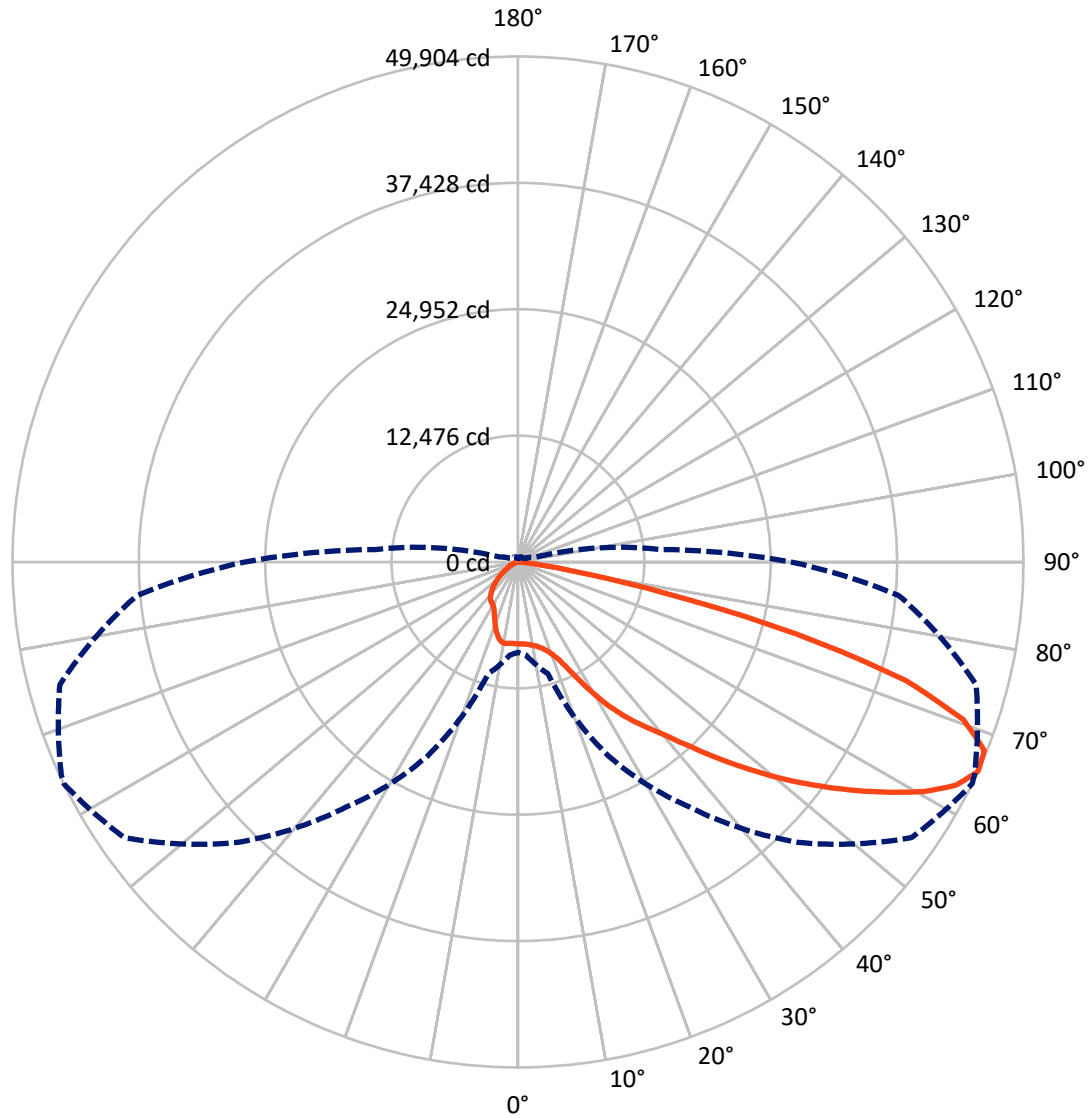
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

REPORT NUMBER: P944766
CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P944766

CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9298.5 | 0.0 | 9298.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 60233.5 | 0.0 | 60233.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 69532.0 | 0.0 | 69532.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 746.1 | 1.1 |
| 10°-20° | 2023.7 | 2.9 |
| 20°-30° | 3834.8 | 5.5 |
| 30°-40° | 7759.8 | 11.2 |
| 40°-50° | 13218.9 | 19.0 |
| 50°-60° | 17976.7 | 25.9 |
| 60°-70° | 16881.0 | 24.3 |
| 70°-80° | 6763.3 | 9.7 |
| 80°-90° | 327.7 | 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° | 69532.0 | 100.0 |
| 0°-180° | 69532.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P944766

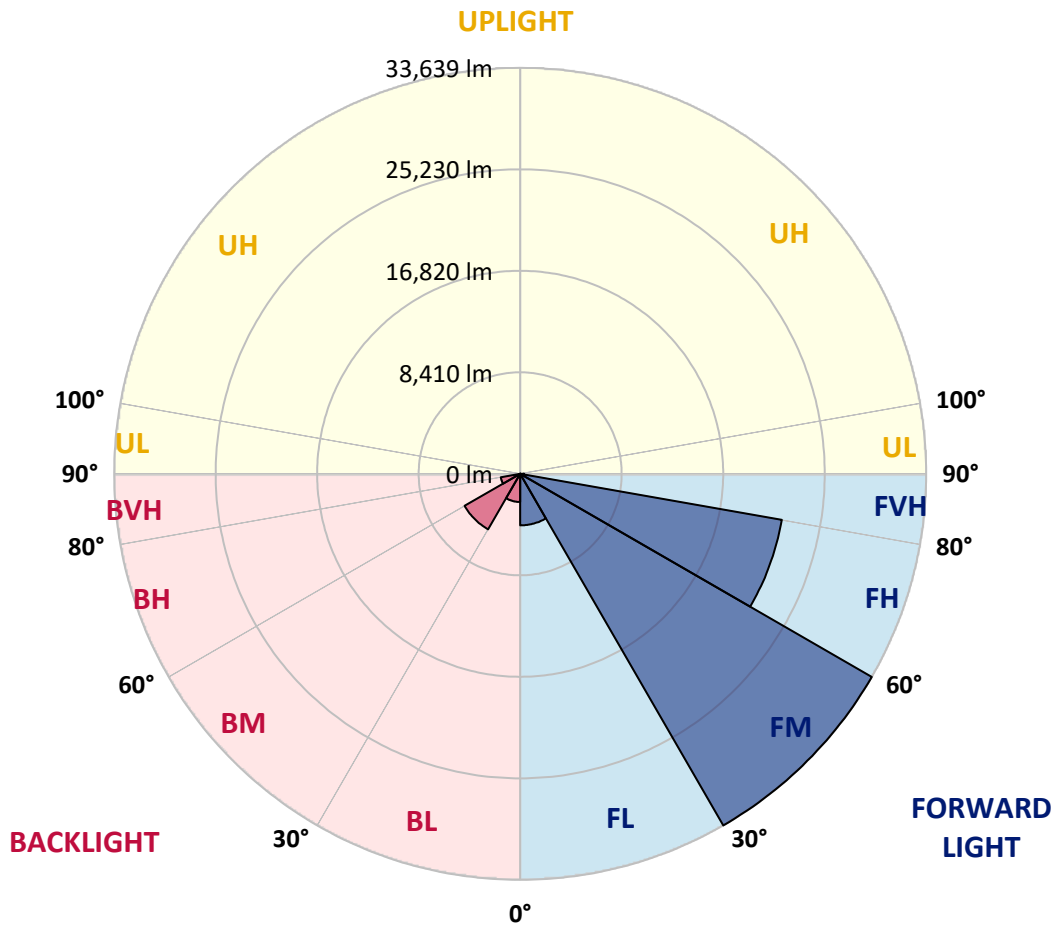
CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4270.1 | 6.1 | | | |
| FM (30°-60°) | 33639.5 | 48.4 | | | |
| FH (60°-80°) | 22012.2 | 31.7 | | | G5 |
| FVH (80°-90°) | 311.7 | 0.4 | | | G3/500 |
| BL (0°-30°) | 2334.6 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 5315.9 | 7.6 | B4/8500 | | |
| BH (60°-80°) | 1632.0 | 2.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 16.0 | 0.0 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P944766

CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 |
| 2.5° | 8059.3 | 8115.3 | 8101.3 | 8087.3 | 8082.6 | 8092.0 | 8096.6 | 8092.0 | 8092.0 | 8092.0 |
| 5° | 7905.5 | 7952.1 | 7952.1 | 7984.7 | 8031.4 | 8087.3 | 8129.2 | 8138.6 | 8147.9 | 8161.9 |
| 7.5° | 7611.8 | 7649.1 | 7677.1 | 7784.3 | 7900.8 | 8050.0 | 8175.9 | 8241.1 | 8250.4 | 8301.7 |
| 10° | 7411.4 | 7458.0 | 7504.6 | 7616.5 | 7784.3 | 8008.1 | 8222.5 | 8381.0 | 8404.3 | 8525.5 |
| 12.5° | 7402.1 | 7448.7 | 7509.3 | 7630.5 | 7826.3 | 8064.0 | 8325.0 | 8553.4 | 8595.4 | 8772.5 |
| 15° | 7500.0 | 7555.9 | 7611.8 | 7761.0 | 7970.8 | 8259.8 | 8539.4 | 8823.8 | 8865.7 | 9117.4 |
| 17.5° | 7700.4 | 7775.0 | 7816.9 | 7966.1 | 8189.8 | 8511.5 | 8879.7 | 9206.0 | 9243.3 | 9536.9 |
| 20° | 8096.6 | 8185.2 | 8199.2 | 8320.4 | 8539.4 | 8884.4 | 9322.5 | 9728.1 | 9774.7 | 10110.3 |
| 22.5° | 8917.0 | 9042.9 | 8931.0 | 8991.6 | 9187.4 | 9532.3 | 10007.7 | 10520.5 | 10585.7 | 10968.0 |
| 25° | 10362.0 | 10539.1 | 10250.1 | 10147.6 | 10231.5 | 10590.4 | 11187.0 | 11835.0 | 11909.5 | 12217.2 |
| 27.5° | 13200.7 | 12972.3 | 12534.1 | 12105.3 | 11853.6 | 12058.7 | 12729.9 | 13531.7 | 13624.9 | 13923.2 |
| 30° | 16319.1 | 16118.7 | 15526.7 | 14575.8 | 13979.1 | 13946.5 | 14566.5 | 15461.4 | 15568.6 | 15853.0 |
| 32.5° | 19442.1 | 19251.0 | 18607.8 | 17437.8 | 16403.0 | 15890.3 | 16319.1 | 17311.9 | 17367.9 | 17549.7 |
| 35° | 22513.9 | 22318.1 | 21674.9 | 20476.9 | 19204.4 | 18039.1 | 17955.2 | 19073.9 | 19092.5 | 19283.7 |
| 37.5° | 25604.3 | 25441.2 | 24756.0 | 23581.3 | 22327.5 | 20719.3 | 19940.9 | 20742.6 | 20765.9 | 20952.4 |
| 40° | 27809.1 | 27879.0 | 27408.2 | 26499.3 | 25422.5 | 23665.2 | 22169.0 | 22518.6 | 22378.7 | 22691.0 |
| 42.5° | 29701.6 | 29841.4 | 29431.2 | 28974.4 | 28349.8 | 26802.3 | 24928.4 | 24867.8 | 24644.1 | 24811.9 |
| 45° | 31337.7 | 31454.2 | 31086.0 | 30978.8 | 30964.8 | 29878.7 | 27944.3 | 27580.7 | 27268.4 | 27235.8 |
| 47.5° | 31939.0 | 32162.7 | 32321.2 | 32680.1 | 33379.3 | 32922.5 | 31062.7 | 30498.7 | 30149.1 | 29892.7 |
| 50° | 32167.4 | 32405.1 | 32945.8 | 33989.9 | 35644.7 | 35840.5 | 34167.1 | 33533.1 | 33104.3 | 32638.2 |
| 52.5° | 31859.7 | 32283.9 | 33011.1 | 34768.4 | 37168.9 | 38180.4 | 37145.6 | 36590.9 | 36101.5 | 35341.7 |
| 55° | 30046.5 | 30470.7 | 31957.6 | 34759.0 | 37928.7 | 39821.2 | 39961.0 | 39714.0 | 39163.9 | 37966.0 |
| 57.5° | 26224.3 | 26853.5 | 29207.5 | 33575.1 | 37914.7 | 41233.5 | 42720.5 | 42897.6 | 42282.3 | 40567.0 |
| 60° | 20929.1 | 21782.1 | 24653.4 | 30950.8 | 36744.7 | 41998.0 | 45139.7 | 46025.3 | 45372.7 | 43130.7 |
| 62.5° | 14603.7 | 15591.9 | 18309.4 | 26839.6 | 34069.2 | 41448.0 | 46906.3 | 48542.4 | 48048.3 | 45424.0 |
| 65° | 8907.7 | 9224.6 | 11415.4 | 21120.2 | 29519.8 | 39145.3 | 47451.7 | 49903.5 | 49740.4 | 46827.1 |
| 67.5° | 5933.8 | 6199.5 | 6828.8 | 14482.5 | 22914.8 | 34544.6 | 46146.5 | 49665.8 | 49712.4 | 46598.7 |
| 70° | 3575.2 | 3803.6 | 4213.8 | 8422.9 | 14850.8 | 27343.0 | 42105.2 | 46635.9 | 46906.3 | 43545.5 |
| 72.5° | 1473.0 | 1626.8 | 1999.7 | 3817.6 | 7691.1 | 17353.9 | 33528.5 | 40040.3 | 40669.5 | 36614.2 |
| 75° | 834.4 | 913.6 | 1174.6 | 1915.8 | 3337.5 | 8087.3 | 20309.1 | 28424.4 | 29352.0 | 25236.1 |
| 77.5° | 554.7 | 592.0 | 759.8 | 1239.9 | 1878.5 | 2759.5 | 8679.3 | 14808.8 | 16580.1 | 13783.4 |
| 80° | 372.9 | 405.5 | 522.1 | 829.7 | 1221.3 | 1184.0 | 2764.1 | 5486.3 | 6749.5 | 4735.8 |
| 82.5° | 251.7 | 256.4 | 372.9 | 545.4 | 773.8 | 573.3 | 815.7 | 1706.0 | 2144.2 | 1370.4 |
| 85° | 144.5 | 139.8 | 275.0 | 317.0 | 344.9 | 237.7 | 247.0 | 512.7 | 671.2 | 578.0 |
| 87.5° | 18.6 | 28.0 | 107.2 | 83.9 | 46.6 | 51.3 | 51.3 | 88.6 | 130.5 | 139.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P944766
 CATALOG NUMBER: GALN-SB9D-840-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 8087.3 | 0° | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 | 8087.3 |
| 8096.6 | 2.5° | 8096.6 | 8092.0 | 8078.0 | 8064.0 | 8031.4 | 8012.7 | 8022.0 | 8012.7 | 8008.1 | 8012.7 |
| 8157.2 | 5° | 8157.2 | 8143.2 | 8105.9 | 8059.3 | 7994.1 | 7914.8 | 7863.6 | 7789.0 | 7719.1 | 7677.1 |
| 8320.4 | 7.5° | 8320.4 | 8306.4 | 8255.1 | 8124.6 | 7914.8 | 7583.9 | 7280.9 | 7015.2 | 6814.8 | 6698.2 |
| 8581.4 | 10° | 8581.4 | 8558.1 | 8478.8 | 8189.8 | 7639.8 | 6917.3 | 6316.0 | 5817.3 | 5491.0 | 5337.1 |
| 8889.0 | 12.5° | 8889.0 | 8861.1 | 8721.2 | 8129.2 | 7117.8 | 5989.7 | 5160.0 | 4605.3 | 4302.3 | 4167.2 |
| 9243.3 | 15° | 9252.6 | 9215.3 | 8940.3 | 7840.2 | 6358.0 | 4964.2 | 4204.5 | 3789.6 | 3593.8 | 3472.6 |
| 9695.4 | 17.5° | 9704.8 | 9639.5 | 9103.4 | 7406.7 | 5532.9 | 4181.2 | 3617.1 | 3304.8 | 3132.4 | 3015.8 |
| 10287.4 | 20° | 10292.1 | 10184.9 | 9234.0 | 6889.3 | 4773.1 | 3687.1 | 3220.9 | 2959.9 | 2829.4 | 2726.8 |
| 11126.4 | 22.5° | 11112.5 | 10958.6 | 9392.4 | 6330.0 | 4237.1 | 3346.8 | 2927.3 | 2736.2 | 2629.0 | 2512.4 |
| 12296.4 | 25° | 12128.6 | 11946.8 | 9588.2 | 5812.6 | 3868.8 | 3053.1 | 2712.9 | 2554.4 | 2428.5 | 2293.3 |
| 13830.0 | 27.5° | 13550.3 | 13224.0 | 9821.3 | 5388.4 | 3551.9 | 2801.4 | 2517.1 | 2340.0 | 2195.5 | 2083.6 |
| 15568.6 | 30° | 15135.1 | 14599.1 | 10026.4 | 5132.1 | 3262.9 | 2568.4 | 2260.7 | 2083.6 | 1948.4 | 1869.2 |
| 17130.1 | 32.5° | 16636.1 | 15908.9 | 10161.6 | 5020.2 | 3001.9 | 2302.7 | 1981.0 | 1789.9 | 1687.4 | 1664.1 |
| 18659.0 | 35° | 18053.1 | 17092.9 | 10147.6 | 4913.0 | 2768.8 | 2037.0 | 1706.0 | 1510.2 | 1431.0 | 1445.0 |
| 20304.5 | 37.5° | 19684.5 | 18356.1 | 10049.7 | 4745.2 | 2577.7 | 1794.6 | 1468.3 | 1295.8 | 1225.9 | 1230.6 |
| 22304.1 | 40° | 21581.7 | 19815.0 | 9989.1 | 4428.2 | 2367.9 | 1570.8 | 1272.5 | 1132.7 | 1081.4 | 1062.8 |
| 24411.0 | 42.5° | 23604.6 | 21227.4 | 9998.4 | 4069.3 | 2106.9 | 1370.4 | 1137.3 | 1020.8 | 974.2 | 960.2 |
| 26755.7 | 45° | 25637.0 | 22574.5 | 10012.4 | 3696.4 | 1831.9 | 1216.6 | 1039.5 | 941.6 | 913.6 | 895.0 |
| 29132.9 | 47.5° | 27548.1 | 23721.2 | 9751.4 | 3295.5 | 1561.5 | 1100.1 | 960.2 | 895.0 | 871.7 | 848.4 |
| 31519.5 | 50° | 29328.7 | 24485.6 | 9122.1 | 2829.4 | 1347.1 | 1006.8 | 899.6 | 853.0 | 829.7 | 806.4 |
| 33682.3 | 52.5° | 30713.1 | 24606.8 | 8082.6 | 2349.3 | 1197.9 | 936.9 | 862.3 | 820.4 | 792.4 | 769.1 |
| 35430.3 | 55° | 31328.4 | 23847.0 | 6605.0 | 1901.8 | 1081.4 | 876.3 | 825.0 | 783.1 | 750.5 | 727.2 |
| 36805.3 | 57.5° | 31169.9 | 22248.2 | 5150.7 | 1528.9 | 969.5 | 815.7 | 778.4 | 750.5 | 713.2 | 675.9 |
| 37919.4 | 60° | 30391.4 | 20108.7 | 3882.8 | 1272.5 | 867.0 | 750.5 | 727.2 | 703.9 | 652.6 | 596.6 |
| 38348.2 | 62.5° | 29044.3 | 17419.1 | 2768.8 | 1053.4 | 755.1 | 675.9 | 666.6 | 647.9 | 573.3 | 470.8 |
| 37714.3 | 65° | 26984.1 | 14151.6 | 1864.5 | 876.3 | 647.9 | 592.0 | 596.6 | 564.0 | 466.1 | 349.6 |
| 35393.0 | 67.5° | 23972.9 | 10348.0 | 1193.3 | 717.8 | 540.7 | 494.1 | 498.8 | 480.1 | 396.2 | 298.3 |
| 30992.7 | 70° | 20136.7 | 6852.1 | 778.4 | 545.4 | 433.5 | 382.2 | 410.2 | 414.9 | 335.6 | 242.4 |
| 23786.4 | 72.5° | 14762.2 | 4046.0 | 545.4 | 405.5 | 317.0 | 265.7 | 335.6 | 344.9 | 270.4 | 181.8 |
| 14310.1 | 75° | 8413.6 | 1920.4 | 410.2 | 293.7 | 195.8 | 186.5 | 261.0 | 261.0 | 186.5 | 121.2 |
| 6194.8 | 77.5° | 3533.2 | 801.7 | 289.0 | 191.1 | 111.9 | 107.2 | 177.1 | 163.1 | 93.2 | 55.9 |
| 1510.2 | 80° | 1020.8 | 358.9 | 153.8 | 93.2 | 46.6 | 42.0 | 69.9 | 51.3 | 23.3 | 9.3 |
| 573.3 | 82.5° | 400.9 | 158.5 | 60.6 | 37.3 | 18.6 | 18.6 | 9.3 | 0.0 | 0.0 | 0.0 |
| 326.3 | 85° | 237.7 | 65.3 | 28.0 | 14.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 69.9 | 87.5° | 60.6 | 14.0 | 9.3 | 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> |
|-------------|
| 8087.3 |
| 8031.4 |
| 7686.4 |
| 6702.9 |
| 5323.2 |
| 4153.2 |
| 3477.3 |
| 3006.5 |
| 2708.2 |
| 2493.8 |
| 2279.4 |
| 2060.3 |
| 1855.2 |
| 1678.1 |
| 1445.0 |
| 1249.2 |
| 1058.1 |
| 955.6 |
| 895.0 |
| 848.4 |
| 806.4 |
| 764.4 |
| 722.5 |
| 671.2 |
| 587.3 |
| 461.5 |
| 340.3 |
| 284.3 |
| 233.1 |
| 172.5 |
| 111.9 |
| 55.9 |
| 9.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)