

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: P943339

Luminaire Tested: **GALN-SB7D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943339
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71527 lumens
Efficiency: N/A
Efficacy: 139.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

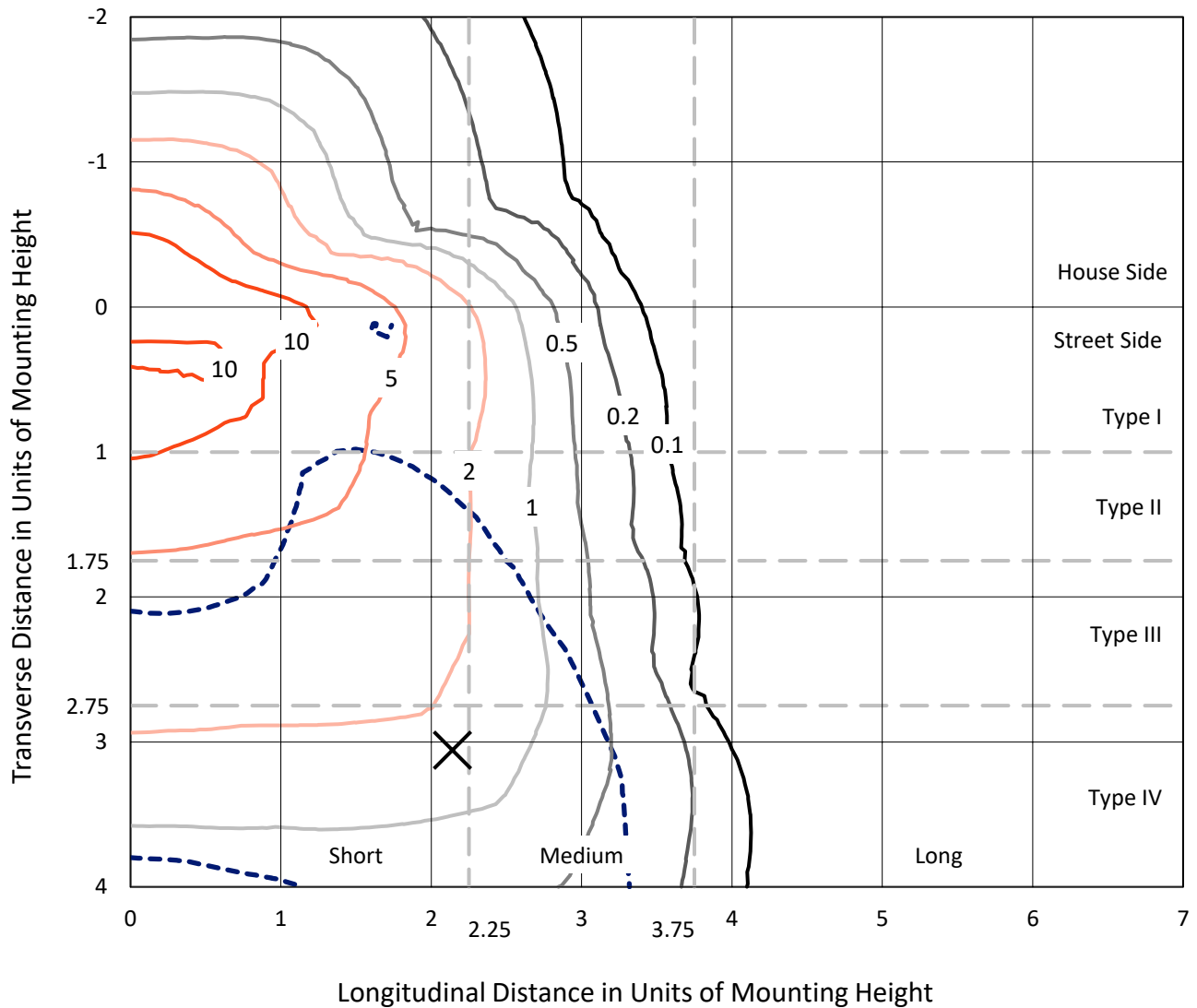
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943339
 CATALOG NUMBER: GALN-SB7D-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

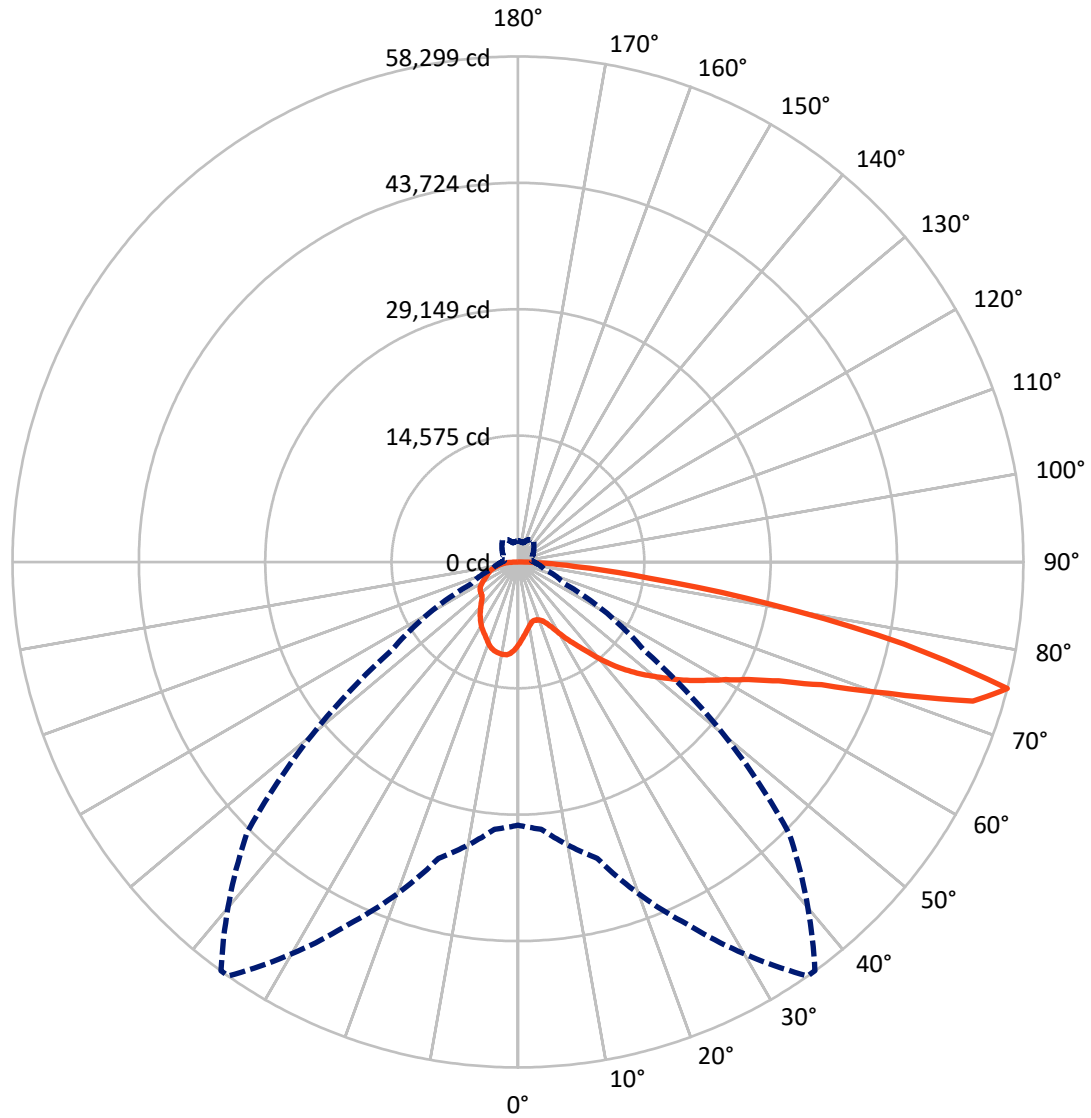
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P943339
CATALOG NUMBER: GALN-SB7D-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P943339
 CATALOG NUMBER: GALN-SB7D-735-U-T4FT

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17021.6 | 0.0 | 17021.6 |
| | % Fixture | 23.8 | 0.0 | 23.8 |
| Street Side | Lumens | 54505.4 | 0.0 | 54505.4 |
| | % Fixture | 76.2 | 0.0 | 76.2 |
| Total | Lumens | 71527.0 | 0.0 | 71527.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 902.4 | 1.3 |
| 10°-20° | 2603.0 | 3.6 |
| 20°-30° | 4371.2 | 6.1 |
| 30°-40° | 6793.4 | 9.5 |
| 40°-50° | 10083.2 | 14.1 |
| 50°-60° | 13920.4 | 19.5 |
| 60°-70° | 16888.7 | 23.6 |
| 70°-80° | 13957.2 | 19.5 |
| 80°-90° | 2007.5 | 2.8 |
| 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° | 71527.0 | 100.0 |
| 0°-180° | 71527.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P943339

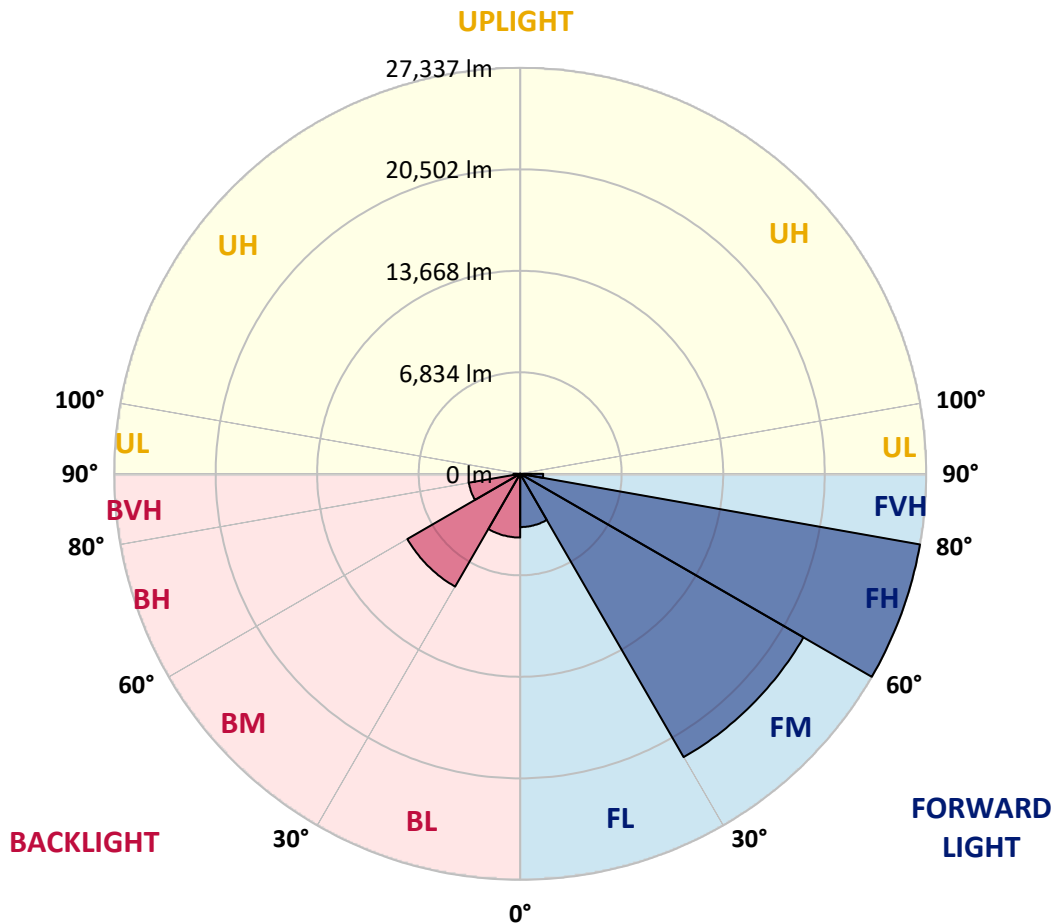
CATALOG NUMBER: GALN-SB7D-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3586.9 | 5.0 | | | |
| FM (30°-60°) | 22026.4 | 30.8 | | | |
| FH (60°-80°) | 27336.5 | 38.2 | | | G5 |
| FVH (80°-90°) | 1555.4 | 2.2 | | | G5 |
| BL (0°-30°) | 4289.7 | 6.0 | B4/5000 | | |
| BM (30°-60°) | 8770.6 | 12.3 | B5 | | |
| BH (60°-80°) | 3509.3 | 4.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 452.0 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type IV Short



REPORT NUMBER: P943339
 CATALOG NUMBER: GALN-SB7D-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 |
| 2.5° | 8789.0 | 8843.2 | 8866.4 | 8854.8 | 8912.8 | 8905.0 | 8986.2 | 9086.8 | 9226.0 | 9361.3 |
| 5° | 8112.4 | 8170.4 | 8220.6 | 8267.0 | 8379.2 | 8414.0 | 8541.6 | 8734.9 | 8990.1 | 9249.2 |
| 7.5° | 7482.1 | 7532.4 | 7609.7 | 7694.8 | 7884.2 | 7919.0 | 8131.7 | 8433.3 | 8789.0 | 9168.0 |
| 10° | 6967.8 | 7018.1 | 7099.3 | 7196.0 | 7431.8 | 7474.4 | 7745.0 | 8147.2 | 8611.2 | 9090.7 |
| 12.5° | 6747.4 | 6762.9 | 6809.3 | 6906.0 | 7110.9 | 7138.0 | 7435.7 | 7895.8 | 8437.2 | 9032.7 |
| 15° | 6735.8 | 6766.8 | 6770.6 | 6820.9 | 6991.0 | 7002.6 | 7277.2 | 7733.4 | 8328.9 | 9021.1 |
| 17.5° | 6851.8 | 6875.0 | 6840.2 | 6871.2 | 7014.2 | 7033.6 | 7250.1 | 7656.1 | 8294.1 | 9071.3 |
| 20° | 7161.2 | 7180.5 | 7076.1 | 7033.6 | 7138.0 | 7153.4 | 7366.1 | 7706.4 | 8328.9 | 9175.7 |
| 22.5° | 7818.5 | 7830.1 | 7574.9 | 7400.9 | 7408.6 | 7416.4 | 7602.0 | 7911.3 | 8464.2 | 9365.2 |
| 25° | 8843.2 | 8835.4 | 8429.4 | 8093.0 | 7899.7 | 7857.2 | 7980.9 | 8243.8 | 8692.4 | 9616.5 |
| 27.5° | 10041.9 | 9983.9 | 9577.9 | 9075.2 | 8653.7 | 8591.8 | 8564.8 | 8676.9 | 9017.2 | 9949.1 |
| 30° | 11395.2 | 11341.1 | 10904.1 | 10246.8 | 9662.9 | 9562.4 | 9307.2 | 9249.2 | 9500.5 | 10401.5 |
| 32.5° | 12880.0 | 12845.2 | 12323.2 | 11526.7 | 10745.6 | 10629.6 | 10200.4 | 10045.7 | 10242.9 | 11085.9 |
| 35° | 14125.1 | 14094.2 | 13661.1 | 12841.4 | 11886.3 | 11743.2 | 11306.3 | 11132.3 | 11232.8 | 11963.6 |
| 37.5° | 15250.3 | 15234.9 | 14863.7 | 14217.9 | 13231.9 | 13057.9 | 12566.8 | 12508.8 | 12489.5 | 13119.8 |
| 40° | 16294.3 | 16255.7 | 15869.0 | 15528.7 | 14797.9 | 14639.4 | 14206.3 | 14156.0 | 14009.1 | 14542.7 |
| 42.5° | 17450.5 | 17350.0 | 16789.3 | 16630.7 | 16433.5 | 16302.1 | 16043.0 | 16050.7 | 15725.9 | 16147.4 |
| 45° | 18394.0 | 18336.0 | 17759.8 | 17667.0 | 17879.7 | 17825.6 | 18049.8 | 18107.8 | 17477.6 | 17829.4 |
| 47.5° | 19407.1 | 19352.9 | 18865.7 | 18800.0 | 19376.1 | 19391.6 | 20184.3 | 20203.6 | 19186.6 | 19577.2 |
| 50° | 20656.0 | 20578.7 | 20095.3 | 20176.5 | 20822.3 | 20880.3 | 22330.3 | 22198.8 | 20760.4 | 21352.0 |
| 52.5° | 21479.6 | 21526.0 | 21421.6 | 21553.1 | 22434.7 | 22488.8 | 24441.5 | 24105.1 | 22318.7 | 23103.6 |
| 55° | 22086.7 | 22179.5 | 22504.3 | 22805.9 | 24136.0 | 24190.2 | 26432.9 | 25918.6 | 23610.2 | 24727.7 |
| 57.5° | 22867.8 | 22736.3 | 23343.4 | 23931.1 | 25752.3 | 25895.4 | 28370.1 | 27666.4 | 24754.7 | 26127.4 |
| 60° | 23989.1 | 23896.3 | 24368.0 | 25238.1 | 27562.0 | 27790.1 | 30419.5 | 29240.1 | 25593.8 | 27237.2 |
| 62.5° | 26262.7 | 26030.7 | 26104.2 | 26873.7 | 29843.3 | 30144.9 | 32731.8 | 30612.8 | 26011.4 | 27670.2 |
| 65° | 29661.6 | 29263.3 | 28892.1 | 29425.7 | 33056.6 | 33354.3 | 35341.8 | 31691.6 | 25856.7 | 26831.1 |
| 67.5° | 33942.0 | 33547.6 | 33091.4 | 33594.0 | 37789.4 | 38025.3 | 38562.8 | 32298.7 | 24638.7 | 23598.6 |
| 70° | 37472.4 | 37325.4 | 37870.6 | 39939.3 | 45348.9 | 45356.6 | 42692.4 | 31796.0 | 21301.7 | 16731.3 |
| 72.5° | 37004.5 | 36915.5 | 39788.5 | 46184.1 | 54876.4 | 54671.5 | 46601.7 | 27991.2 | 14349.4 | 7547.8 |
| 75° | 30357.6 | 30933.7 | 35384.3 | 46071.9 | 58298.5 | 58271.4 | 44208.2 | 17794.6 | 5935.4 | 3128.2 |
| 77.5° | 16278.9 | 17191.4 | 22972.2 | 34015.5 | 45511.3 | 46195.7 | 31080.7 | 6225.4 | 2548.2 | 2003.0 |
| 80° | 5309.0 | 6105.5 | 9156.4 | 17319.0 | 29572.6 | 29445.0 | 13320.8 | 2443.8 | 1743.9 | 1419.1 |
| 82.5° | 2254.3 | 2347.1 | 4091.0 | 8178.1 | 15176.9 | 14941.0 | 4241.8 | 1403.6 | 1225.7 | 970.5 |
| 85° | 881.6 | 986.0 | 1805.8 | 3781.6 | 6573.4 | 6430.3 | 1531.2 | 696.0 | 784.9 | 634.1 |
| 87.5° | 290.0 | 351.9 | 645.7 | 1295.4 | 2045.5 | 1972.0 | 375.1 | 239.7 | 340.3 | 290.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P943339
 CATALOG NUMBER: GALN-SB7D-735-U-T4FT

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 9531.5 | 0° | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 | 9531.5 |
| 9558.5 | 2.5° | 9612.7 | 9674.5 | 9748.0 | 9856.3 | 9949.1 | 10026.4 | 10107.6 | 10157.9 | 10177.2 | 10235.2 |
| 9574.0 | 5° | 9682.3 | 9817.6 | 9999.3 | 10177.2 | 10351.2 | 10455.6 | 10548.4 | 10594.8 | 10637.3 | 10668.3 |
| 9616.5 | 7.5° | 9798.3 | 9972.3 | 10258.4 | 10490.4 | 10637.3 | 10722.4 | 10784.3 | 10768.8 | 10784.3 | 10792.0 |
| 9662.9 | 10° | 9898.8 | 10142.4 | 10482.7 | 10703.1 | 10815.2 | 10819.1 | 10803.6 | 10749.5 | 10722.4 | 10726.3 |
| 9732.5 | 12.5° | 10018.7 | 10289.3 | 10656.7 | 10842.3 | 10873.2 | 10788.1 | 10722.4 | 10629.6 | 10594.8 | 10579.3 |
| 9836.9 | 15° | 10181.1 | 10490.4 | 10846.1 | 10915.7 | 10838.4 | 10730.1 | 10618.0 | 10467.2 | 10389.9 | 10328.0 |
| 10014.8 | 17.5° | 10378.3 | 10718.5 | 10993.1 | 10942.8 | 10776.5 | 10598.7 | 10416.9 | 10188.8 | 10030.3 | 9964.5 |
| 10258.4 | 20° | 10652.8 | 10958.3 | 11105.2 | 10884.8 | 10633.5 | 10362.8 | 10053.5 | 9775.1 | 9628.1 | 9562.4 |
| 10567.7 | 22.5° | 10985.3 | 11279.2 | 11213.5 | 10784.3 | 10428.5 | 9995.5 | 9608.8 | 9403.9 | 9330.4 | 9284.0 |
| 10966.0 | 25° | 11383.6 | 11635.0 | 11290.8 | 10637.3 | 10092.1 | 9508.3 | 9210.5 | 9144.8 | 9110.0 | 9075.2 |
| 11453.2 | 27.5° | 11901.8 | 12037.1 | 11348.8 | 10420.8 | 9566.3 | 8990.1 | 8881.8 | 8893.4 | 8881.8 | 8823.8 |
| 12129.9 | 30° | 12586.2 | 12559.1 | 11402.9 | 10068.9 | 8963.0 | 8522.2 | 8530.0 | 8580.2 | 8588.0 | 8549.3 |
| 13073.4 | 32.5° | 13487.1 | 13212.6 | 11430.0 | 9612.7 | 8386.9 | 8112.4 | 8120.1 | 8174.2 | 8212.9 | 8147.2 |
| 14306.9 | 35° | 14577.5 | 13974.3 | 11387.5 | 9040.4 | 7942.2 | 7721.8 | 7663.8 | 7679.3 | 7690.9 | 7629.0 |
| 15803.3 | 37.5° | 15849.7 | 14828.9 | 11198.0 | 8406.2 | 7574.9 | 7339.0 | 7215.3 | 7110.9 | 7049.0 | 6991.0 |
| 17496.9 | 40° | 17245.6 | 15760.7 | 10850.0 | 7787.6 | 7165.0 | 6933.0 | 6747.4 | 6550.2 | 6341.4 | 6264.1 |
| 19291.0 | 42.5° | 18707.2 | 16719.7 | 10428.5 | 7196.0 | 6693.3 | 6503.8 | 6306.6 | 6020.5 | 5707.3 | 5548.7 |
| 21154.8 | 45° | 20222.9 | 17701.8 | 10014.8 | 6612.1 | 6209.9 | 6128.7 | 5900.6 | 5556.5 | 5216.2 | 5015.1 |
| 23022.4 | 47.5° | 21707.7 | 18629.8 | 9407.7 | 6024.3 | 5757.5 | 5846.5 | 5668.6 | 5351.5 | 4972.6 | 4655.5 |
| 24874.6 | 50° | 23126.8 | 19499.9 | 8414.0 | 5428.9 | 5390.2 | 5761.4 | 5591.3 | 5135.0 | 4701.9 | 4295.9 |
| 26691.9 | 52.5° | 24534.3 | 20203.6 | 7141.8 | 4887.5 | 5193.0 | 5738.2 | 5490.7 | 4988.1 | 4458.3 | 4033.0 |
| 28401.0 | 55° | 25729.1 | 20567.1 | 5916.1 | 4423.5 | 4906.9 | 5541.0 | 5370.9 | 4814.1 | 4114.2 | 3661.8 |
| 29572.6 | 57.5° | 26409.7 | 20273.2 | 4895.3 | 3967.3 | 4512.5 | 5216.2 | 5165.9 | 4442.9 | 3704.3 | 3356.3 |
| 29800.8 | 60° | 26115.8 | 19082.2 | 4060.1 | 3569.0 | 4137.4 | 4864.3 | 4810.2 | 4075.5 | 3391.1 | 3062.4 |
| 28578.9 | 62.5° | 24495.7 | 16812.5 | 3398.8 | 3221.0 | 3797.1 | 4504.7 | 4454.5 | 3793.2 | 3151.4 | 2834.3 |
| 25334.7 | 65° | 21232.1 | 13676.6 | 2884.6 | 2931.0 | 3453.0 | 4071.7 | 4145.1 | 3557.4 | 2961.9 | 2652.6 |
| 19600.4 | 67.5° | 16193.8 | 9906.5 | 2482.4 | 2679.6 | 3116.6 | 3646.3 | 3859.0 | 3387.2 | 2803.4 | 2509.5 |
| 11341.1 | 70° | 9229.9 | 5626.1 | 2142.2 | 2436.0 | 2818.8 | 3251.9 | 3638.6 | 3251.9 | 2633.2 | 2389.6 |
| 4249.5 | 72.5° | 3499.4 | 2583.0 | 1852.2 | 2192.4 | 2532.7 | 2919.4 | 3395.0 | 3039.2 | 2436.0 | 2254.3 |
| 2196.3 | 75° | 1867.6 | 1573.8 | 1558.3 | 1906.3 | 2204.0 | 2594.6 | 3089.5 | 2830.4 | 2289.1 | 2381.9 |
| 1519.6 | 77.5° | 1272.1 | 1113.6 | 1303.1 | 1631.8 | 1844.4 | 2235.0 | 2764.7 | 2513.4 | 1983.6 | 1975.9 |
| 1051.7 | 80° | 881.6 | 788.8 | 1059.5 | 1314.7 | 1426.8 | 1879.2 | 2412.8 | 2157.6 | 1616.3 | 1508.0 |
| 649.6 | 82.5° | 529.7 | 514.3 | 792.7 | 982.1 | 1009.2 | 1450.0 | 1999.1 | 1809.6 | 1322.4 | 1152.3 |
| 386.7 | 85° | 290.0 | 305.5 | 506.5 | 576.1 | 587.7 | 1013.1 | 1566.0 | 1399.8 | 1016.9 | 854.5 |
| 139.2 | 87.5° | 81.2 | 104.4 | 185.6 | 228.1 | 282.3 | 525.9 | 931.9 | 831.3 | 510.4 | 355.7 |
| 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°
9531.5
10231.3
10676.0
10803.6
10734.0
10571.6
10347.3
9968.4
9554.7
9291.7
9075.2
8835.4
8568.6
8178.1
7671.6
7029.7
6298.9
5568.1
4999.7
4620.7
4261.1
3986.6
3623.1
3309.9
3016.0
2784.0
2602.3
2463.1
2358.7
2223.4
2459.2
1821.2
1442.3
1160.0
862.3
355.7
0.0

F REPORT)