

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: P957037

Luminaire Tested: **GALN-SB9C-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67801 lumens
Efficiency: N/A
Efficacy: 150.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

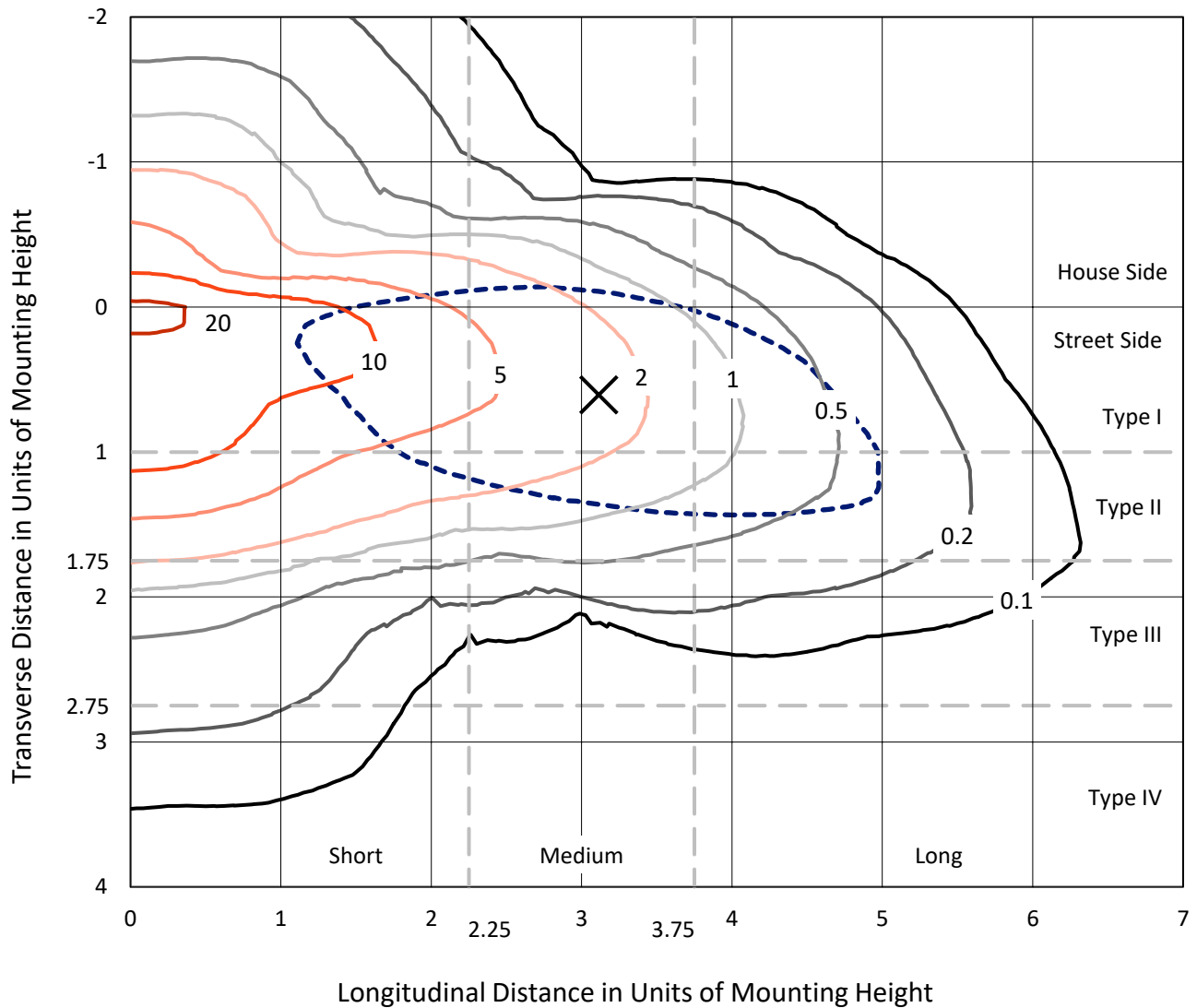
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957037
 CATALOG NUMBER: GALN-SB9C-735-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

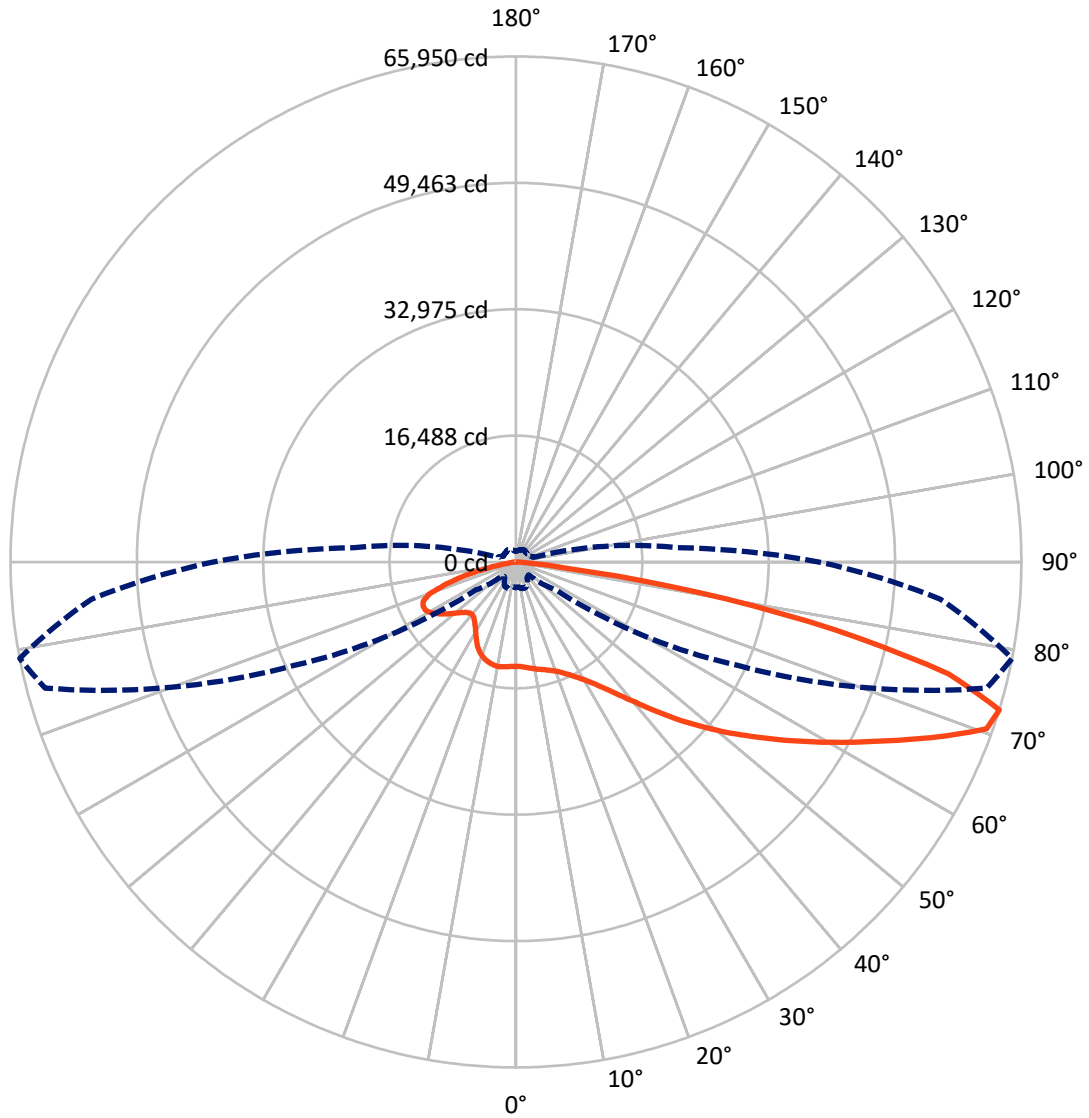
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P957037
CATALOG NUMBER: GALN-SB9C-735-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P957037

CATALOG NUMBER: GALN-SB9C-735-U-SL2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14920.0 | 0.0 | 14920.0 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 52881.1 | 0.0 | 52881.1 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 67801.0 | 0.0 | 67801.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1235.4 | 1.8 |
| 10°-20° | 3230.0 | 4.8 |
| 20°-30° | 5212.0 | 7.7 |
| 30°-40° | 7822.4 | 11.5 |
| 40°-50° | 11096.5 | 16.4 |
| 50°-60° | 14013.4 | 20.7 |
| 60°-70° | 14232.6 | 21.0 |
| 70°-80° | 9700.1 | 14.3 |
| 80°-90° | 1258.5 | 1.9 |
| 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° | 67801.0 | 100.0 |
| 0°-180° | 67801.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P957037

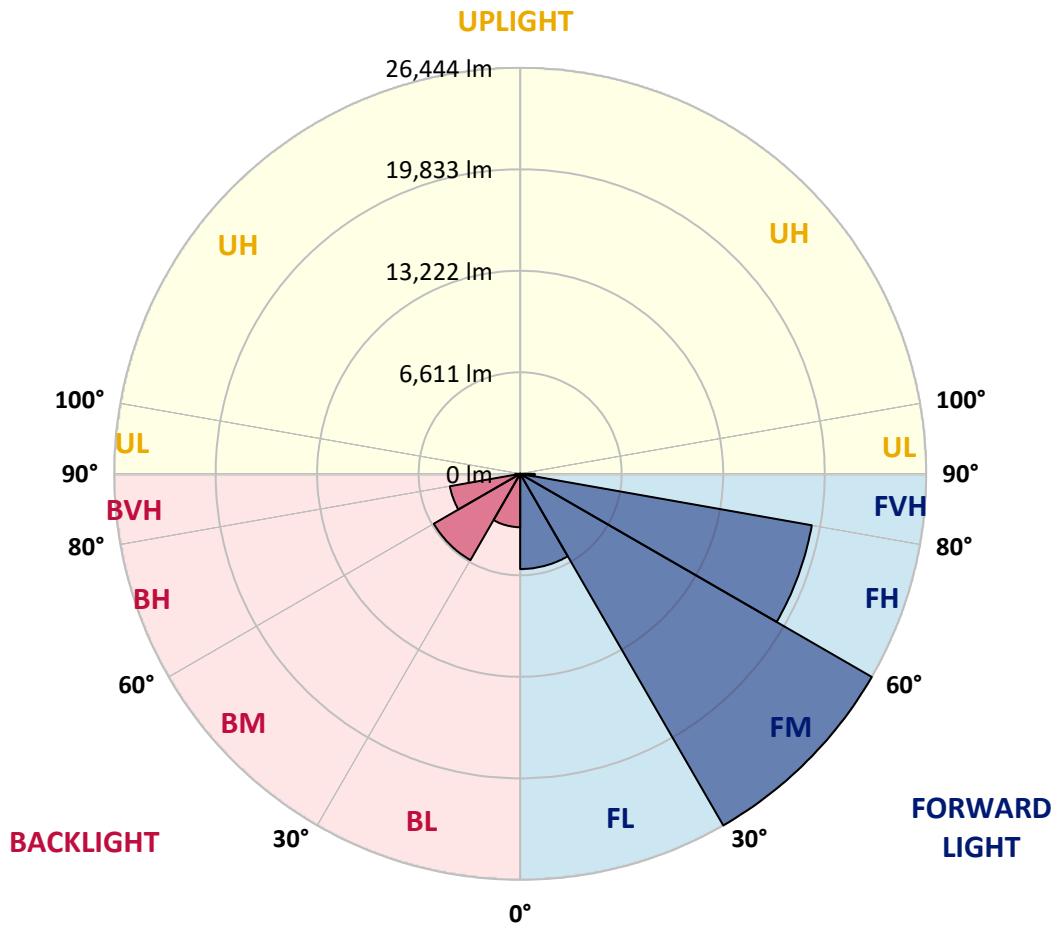
CATALOG NUMBER: GALN-SB9C-735-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6202.1 | 9.1 | | | |
| FM (30°-60°) | 26443.8 | 39.0 | | | |
| FH (60°-80°) | 19287.1 | 28.4 | | | G5 |
| FVH (80°-90°) | 948.0 | 1.4 | | | G5 |
| BL (0°-30°) | 3475.3 | 5.1 | B4/5000 | | |
| BM (30°-60°) | 6488.6 | 9.6 | B4/8500 | | |
| BH (60°-80°) | 4645.6 | 6.9 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 310.5 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P957037
 CATALOG NUMBER: GALN-SB9C-735-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 |
| 2.5° | 13617.6 | 13553.0 | 13592.5 | 13578.1 | 13596.1 | 13617.6 | 13624.8 | 13635.5 | 13671.4 | 13667.8 |
| 5° | 13588.9 | 13524.3 | 13578.1 | 13560.2 | 13606.8 | 13657.0 | 13700.1 | 13739.5 | 13796.9 | 13822.0 |
| 7.5° | 13527.9 | 13484.9 | 13538.7 | 13592.5 | 13678.5 | 13753.9 | 13814.8 | 13904.5 | 13987.0 | 14001.3 |
| 10° | 13172.9 | 13140.6 | 13266.1 | 13406.0 | 13642.7 | 13847.1 | 13979.8 | 14083.8 | 14173.5 | 14187.8 |
| 12.5° | 12803.5 | 12764.0 | 12903.9 | 13094.0 | 13477.7 | 13847.1 | 14126.8 | 14263.1 | 14342.0 | 14388.7 |
| 15° | 12742.5 | 12710.2 | 12789.1 | 12954.1 | 13273.3 | 13750.3 | 14227.3 | 14478.3 | 14546.5 | 14600.3 |
| 17.5° | 13036.6 | 12975.6 | 13007.9 | 13065.3 | 13251.8 | 13660.6 | 14306.2 | 14722.2 | 14826.2 | 14883.6 |
| 20° | 13718.0 | 13631.9 | 13581.7 | 13466.9 | 13434.7 | 13675.0 | 14299.0 | 15016.3 | 15152.6 | 15224.3 |
| 22.5° | 14625.4 | 14568.0 | 14460.4 | 14169.9 | 13854.3 | 13850.7 | 14435.3 | 15392.8 | 15647.5 | 15715.6 |
| 25° | 15722.8 | 15636.7 | 15500.4 | 15105.9 | 14499.8 | 14198.6 | 14664.8 | 15873.4 | 16300.2 | 16318.1 |
| 27.5° | 16985.2 | 16856.1 | 16669.6 | 16149.6 | 15331.9 | 14743.7 | 15016.3 | 16425.7 | 17049.8 | 17042.6 |
| 30° | 18315.8 | 18186.7 | 17989.4 | 17358.2 | 16328.9 | 15478.9 | 15504.0 | 17021.1 | 17939.2 | 17899.7 |
| 32.5° | 19287.7 | 19190.9 | 19151.4 | 18663.7 | 17476.6 | 16346.8 | 16063.5 | 17681.0 | 19036.6 | 19000.8 |
| 35° | 20033.7 | 19908.1 | 19954.8 | 19707.3 | 18728.2 | 17318.7 | 16748.5 | 18466.4 | 20370.8 | 20367.2 |
| 37.5° | 20772.5 | 20661.3 | 20700.7 | 20535.8 | 19886.6 | 18552.5 | 17584.1 | 19427.6 | 22024.1 | 22103.0 |
| 40° | 21446.7 | 21328.3 | 21486.2 | 21331.9 | 20786.8 | 19865.1 | 18534.5 | 20514.2 | 23939.3 | 24089.9 |
| 42.5° | 21852.0 | 21758.7 | 22020.5 | 22024.1 | 21568.6 | 20973.3 | 19578.2 | 21712.1 | 26155.6 | 26492.8 |
| 45° | 21991.8 | 21959.6 | 22354.1 | 22436.5 | 22260.8 | 21615.3 | 20517.8 | 23017.5 | 28544.2 | 29146.7 |
| 47.5° | 21841.2 | 21780.2 | 22325.4 | 22630.2 | 22770.1 | 21916.5 | 21296.1 | 24430.6 | 30983.0 | 31865.2 |
| 50° | 21080.9 | 20962.5 | 21773.1 | 22415.0 | 22913.5 | 22113.8 | 22081.5 | 26062.4 | 33755.2 | 34720.0 |
| 52.5° | 19714.5 | 19624.8 | 20546.5 | 21661.9 | 22597.9 | 22210.6 | 22963.7 | 27844.8 | 36387.7 | 37635.7 |
| 55° | 17967.9 | 17849.5 | 18864.5 | 20320.6 | 21812.5 | 22178.3 | 23846.0 | 29838.9 | 39493.5 | 40759.5 |
| 57.5° | 15199.2 | 14962.5 | 16246.4 | 17967.9 | 20532.2 | 22138.9 | 24764.1 | 31822.2 | 42649.5 | 44166.6 |
| 60° | 11160.9 | 10809.4 | 12383.9 | 14424.5 | 18028.9 | 21755.1 | 25901.0 | 34045.7 | 46436.8 | 47803.2 |
| 62.5° | 6498.6 | 6294.1 | 7323.4 | 9227.8 | 13588.9 | 19495.7 | 26539.4 | 36631.5 | 50159.5 | 51594.0 |
| 65° | 5046.1 | 4988.7 | 5078.3 | 5225.4 | 7563.7 | 14596.7 | 24570.5 | 39152.8 | 54893.5 | 55897.7 |
| 67.5° | 4615.7 | 4572.7 | 4612.1 | 4336.0 | 3837.5 | 8130.4 | 19438.3 | 39791.2 | 59964.7 | 60574.4 |
| 70° | 4102.8 | 4052.6 | 4181.7 | 3945.0 | 3019.8 | 3697.6 | 12559.6 | 37474.3 | 63999.4 | 65143.5 |
| 72.5° | 3342.5 | 3285.1 | 3586.4 | 3478.8 | 2542.8 | 2374.2 | 6308.5 | 31969.2 | 63576.2 | 65950.4 |
| 75° | 2567.9 | 2535.6 | 2894.2 | 2983.9 | 2072.9 | 1868.5 | 3026.9 | 23763.5 | 55947.9 | 58340.0 |
| 77.5° | 1994.0 | 1968.9 | 2151.8 | 2478.2 | 1671.3 | 1448.9 | 1861.3 | 15073.7 | 42161.8 | 42581.4 |
| 80° | 1495.5 | 1423.8 | 1592.4 | 1918.7 | 1301.9 | 1058.0 | 1262.4 | 8790.3 | 26650.6 | 24158.0 |
| 82.5° | 936.1 | 900.2 | 1040.1 | 1280.3 | 918.1 | 728.0 | 821.3 | 4856.0 | 10680.3 | 6290.6 |
| 85° | 534.4 | 520.0 | 566.7 | 731.6 | 498.5 | 419.6 | 469.8 | 2144.7 | 1951.0 | 1341.3 |
| 87.5° | 215.2 | 208.0 | 258.2 | 326.4 | 182.9 | 154.2 | 165.0 | 516.4 | 430.4 | 398.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P957037
 CATALOG NUMBER: GALN-SB9C-735-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13610.4 | 0° | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 | 13610.4 |
| 13664.2 | 2.5° | 13649.9 | 13649.9 | 13599.6 | 13520.7 | 13431.1 | 13373.7 | 13280.5 | 13255.4 | 13158.5 | 13129.8 |
| 13786.1 | 5° | 13814.8 | 13786.1 | 13631.9 | 13409.6 | 13104.7 | 12825.0 | 12516.6 | 12322.9 | 12050.3 | 11953.5 |
| 14026.4 | 7.5° | 14022.8 | 13943.9 | 13678.5 | 13190.8 | 12552.4 | 11924.8 | 11272.1 | 10777.1 | 10303.7 | 10135.2 |
| 14223.7 | 10° | 14212.9 | 14101.7 | 13649.9 | 12796.3 | 11691.7 | 10605.0 | 9564.9 | 8836.9 | 8284.6 | 8058.7 |
| 14442.5 | 12.5° | 14403.0 | 14198.6 | 13459.8 | 12140.0 | 10468.7 | 8994.7 | 7886.5 | 7319.9 | 6979.1 | 6706.6 |
| 14621.8 | 15° | 14582.3 | 14295.4 | 13165.7 | 11261.3 | 9127.4 | 7631.9 | 6814.2 | 6362.3 | 6089.7 | 5910.4 |
| 14883.6 | 17.5° | 14790.3 | 14377.9 | 12724.6 | 10145.9 | 7850.6 | 6688.6 | 6021.6 | 5749.0 | 5695.2 | 5673.7 |
| 15242.2 | 20° | 15080.8 | 14453.2 | 12143.6 | 8897.9 | 6911.0 | 5935.5 | 5591.2 | 5566.1 | 5562.5 | 5551.8 |
| 15672.6 | 22.5° | 15392.8 | 14542.9 | 11376.1 | 7764.6 | 6111.2 | 5465.7 | 5404.7 | 5354.5 | 5322.2 | 5318.6 |
| 16192.6 | 25° | 15762.2 | 14571.6 | 10414.9 | 6835.7 | 5429.8 | 5243.3 | 5171.6 | 5096.3 | 5074.8 | 5074.8 |
| 16784.4 | 27.5° | 16120.9 | 14474.7 | 9296.0 | 6028.7 | 5046.1 | 5038.9 | 4945.7 | 4920.5 | 4917.0 | 4927.7 |
| 17458.6 | 30° | 16479.5 | 14291.8 | 8184.2 | 5282.8 | 4823.7 | 4823.7 | 4791.4 | 4809.4 | 4823.7 | 4859.6 |
| 18383.9 | 32.5° | 16963.7 | 14098.2 | 7255.3 | 4730.5 | 4630.0 | 4594.2 | 4626.5 | 4662.3 | 4676.7 | 4723.3 |
| 19599.7 | 35° | 17673.8 | 13961.9 | 6516.5 | 4429.2 | 4429.2 | 4382.6 | 4400.5 | 4393.3 | 4361.1 | 4339.5 |
| 21070.1 | 37.5° | 18613.4 | 13954.7 | 5906.8 | 4289.3 | 4260.6 | 4253.5 | 4257.1 | 4210.4 | 4084.9 | 3934.3 |
| 22849.0 | 40° | 19743.2 | 14148.4 | 5437.0 | 4192.5 | 4171.0 | 4214.0 | 4192.5 | 4067.0 | 3722.7 | 3460.9 |
| 25036.7 | 42.5° | 21260.2 | 14700.7 | 5135.7 | 4074.2 | 4138.7 | 4192.5 | 4106.4 | 3672.5 | 3439.4 | 3263.6 |
| 27529.2 | 45° | 23046.2 | 15597.3 | 4981.5 | 3948.6 | 4077.7 | 4142.3 | 3726.3 | 3536.2 | 3349.7 | 3138.1 |
| 30247.7 | 47.5° | 25069.0 | 16727.0 | 4945.7 | 3830.3 | 3941.5 | 3980.9 | 3564.9 | 3478.8 | 3267.2 | 3037.7 |
| 32980.6 | 50° | 27271.0 | 18064.7 | 5042.5 | 3690.4 | 3744.2 | 3607.9 | 3511.1 | 3432.2 | 3213.4 | 2987.5 |
| 35781.6 | 52.5° | 29548.4 | 19538.7 | 5236.2 | 3500.3 | 3547.0 | 3396.3 | 3489.6 | 3421.4 | 3181.1 | 2876.3 |
| 38675.8 | 55° | 31786.3 | 21023.5 | 5422.6 | 3278.0 | 3346.1 | 3206.2 | 3428.6 | 3378.4 | 3034.1 | 2689.8 |
| 41763.7 | 57.5° | 34060.1 | 22501.1 | 5605.6 | 3080.7 | 3152.4 | 3023.3 | 3331.8 | 3263.6 | 2869.1 | 2517.7 |
| 45134.9 | 60° | 36423.5 | 23935.7 | 5691.6 | 2890.6 | 2940.9 | 2854.8 | 3184.7 | 3066.4 | 2682.6 | 2341.9 |
| 48448.7 | 62.5° | 38636.3 | 25129.9 | 5551.8 | 2700.6 | 2732.8 | 2697.0 | 2991.1 | 2833.3 | 2496.1 | 2144.7 |
| 51902.4 | 65° | 40856.3 | 25840.0 | 5121.4 | 2514.1 | 2521.2 | 2503.3 | 2718.5 | 2582.2 | 2277.4 | 1972.5 |
| 54925.8 | 67.5° | 42868.3 | 26238.1 | 4436.4 | 2313.2 | 2295.3 | 2288.1 | 2463.9 | 2309.6 | 2065.8 | 1800.4 |
| 57224.7 | 70° | 43295.1 | 25226.8 | 3389.2 | 2076.5 | 2076.5 | 2058.6 | 2184.1 | 2026.3 | 1832.7 | 1617.5 |
| 55578.5 | 72.5° | 39543.7 | 21220.8 | 2406.5 | 1807.5 | 1836.2 | 1800.4 | 1904.4 | 1771.7 | 1596.0 | 1452.5 |
| 47900.0 | 75° | 31886.7 | 15561.4 | 1750.2 | 1531.4 | 1581.6 | 1520.6 | 1617.5 | 1524.2 | 1373.6 | 1370.0 |
| 33009.3 | 77.5° | 21909.3 | 9622.3 | 1269.6 | 1262.4 | 1298.3 | 1219.4 | 1330.6 | 1280.3 | 1144.1 | 1083.1 |
| 14367.1 | 80° | 9349.8 | 3837.5 | 925.3 | 975.5 | 975.5 | 903.8 | 1032.9 | 1047.2 | 928.9 | 900.2 |
| 2772.3 | 82.5° | 1861.3 | 1090.3 | 649.1 | 670.7 | 631.2 | 609.7 | 731.6 | 810.5 | 1119.0 | 1244.5 |
| 835.6 | 85° | 559.5 | 401.7 | 390.9 | 365.8 | 322.8 | 326.4 | 430.4 | 814.1 | 1004.2 | 573.8 |
| 276.2 | 87.5° | 154.2 | 100.4 | 104.0 | 82.5 | 68.1 | 89.7 | 147.0 | 616.9 | 337.1 | 143.5 |
| 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°
13610.4
13176.5
12025.2
10156.7
8108.9
6796.2
5942.7
5688.0
5587.6
5358.1
5096.3
4956.4
4884.7
4762.7
4389.8
3937.9
3453.7
3256.5
3123.8
3019.8
2962.4
2854.8
2671.9
2510.5
2331.2
2141.1
1951.0
1778.9
1610.3
1409.5
1233.7
1015.0
900.2
1248.1
494.9
121.9
0.0

F REPORT)