

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: P951105

Luminaire Tested: **GALN-SB5B-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951105
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-SB5B-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 450mA 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: 21965 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

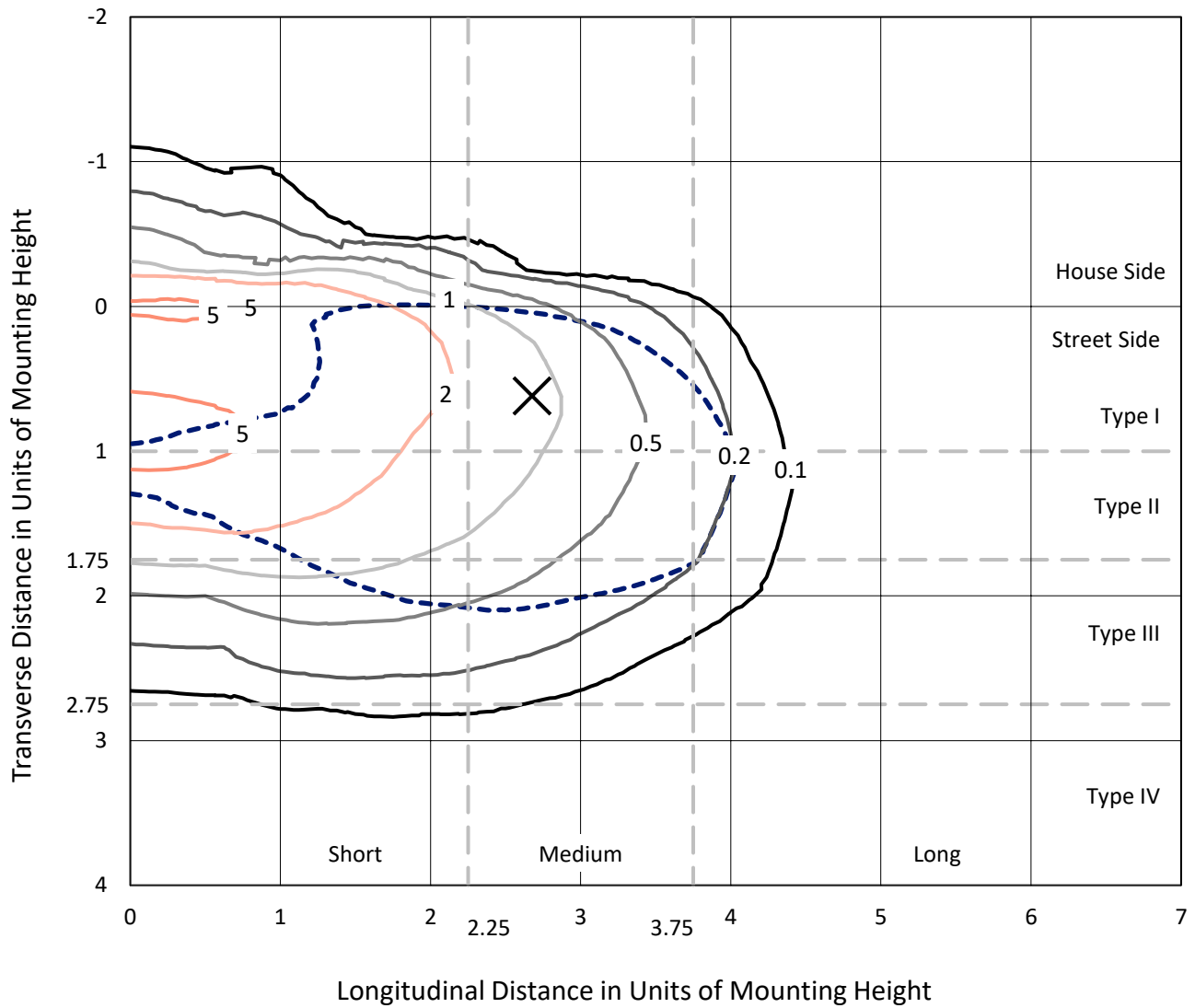
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951105
 CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

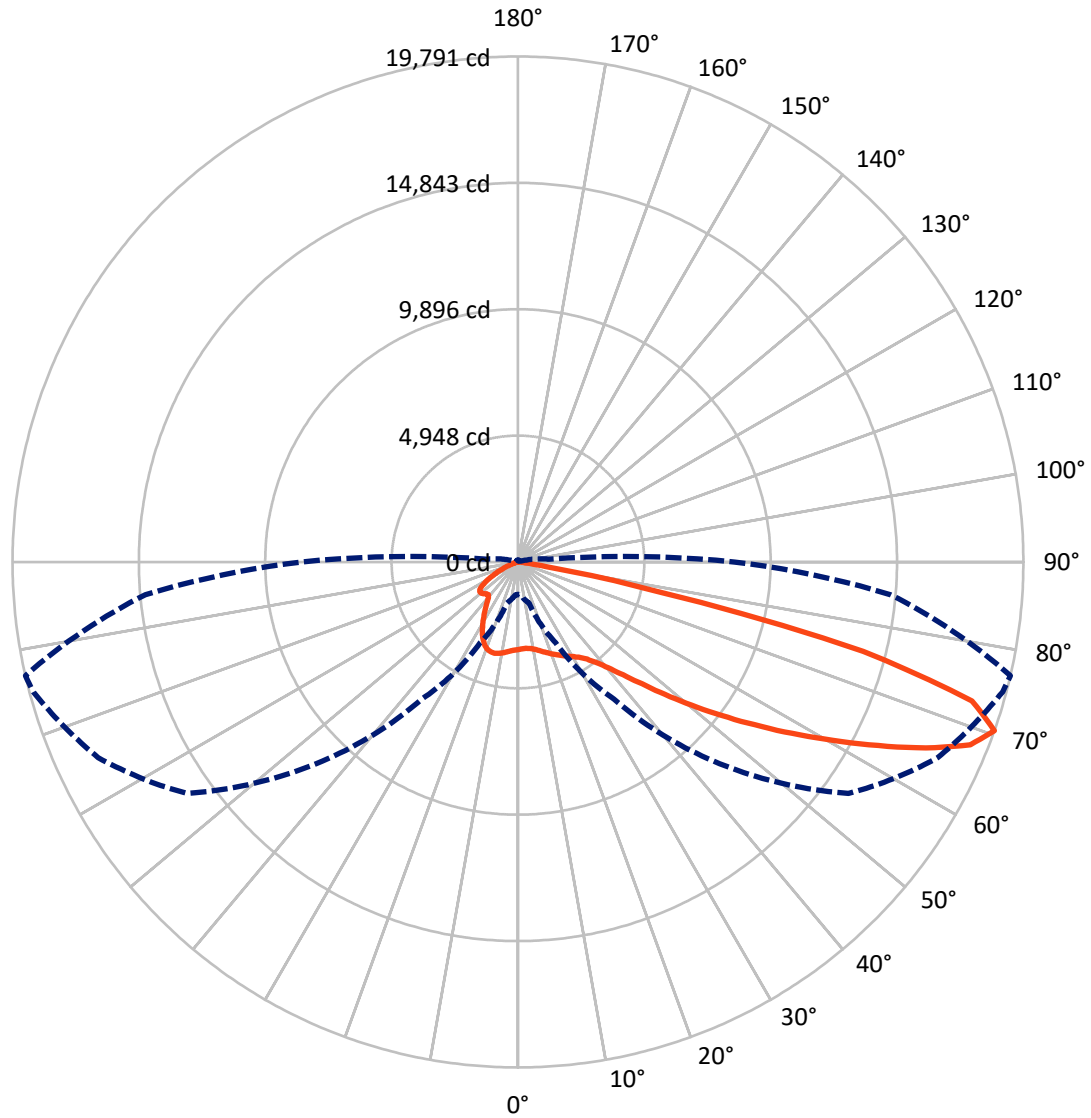
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P951105
CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951105
 CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2315.4 | 0.0 | 2315.4 |
| | % Fixture | 10.5 | 0.0 | 10.5 |
| Street Side | Lumens | 19649.6 | 0.0 | 19649.6 |
| | % Fixture | 89.5 | 0.0 | 89.5 |
| Total | Lumens | 21965.0 | 0.0 | 21965.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 295.3 | 1.3 |
| 10°-20° | 701.0 | 3.2 |
| 20°-30° | 1084.2 | 4.9 |
| 30°-40° | 1967.3 | 9.0 |
| 40°-50° | 3713.6 | 16.9 |
| 50°-60° | 5365.8 | 24.4 |
| 60°-70° | 5711.7 | 26.0 |
| 70°-80° | 3026.8 | 13.8 |
| 80°-90° | 99.4 | 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° | 21965.0 | 100.0 |
| 0°-180° | 21965.0 | 100.0 |

Coefficient of Utilization



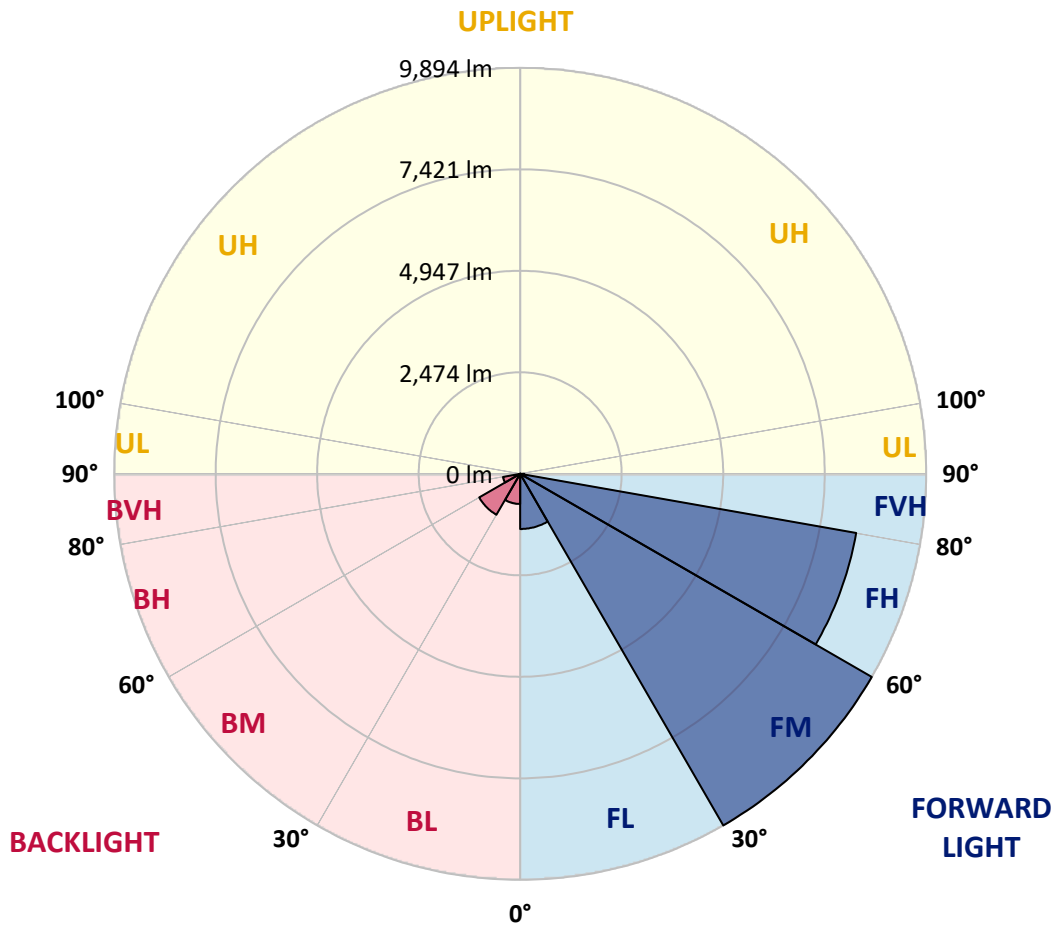
REPORT NUMBER: P951105
 CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1344.8 | 6.1 | | | |
| FM (30°-60°) | 9894.0 | 45.0 | | | |
| FH (60°-80°) | 8314.1 | 37.9 | | | G4/12000 |
| FVH (80°-90°) | 96.7 | 0.4 | | | G1/100 |
| BL (0°-30°) | 735.7 | 3.3 | B2/1000 | | |
| BM (30°-60°) | 1152.6 | 5.2 | B2/2500 | | |
| BH (60°-80°) | 424.5 | 1.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Medium



REPORT NUMBER: P951105
 CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 |
| 2.5° | 3216.7 | 3245.8 | 3241.7 | 3261.1 | 3268.0 | 3295.8 | 3323.5 | 3360.9 | 3402.6 | 3401.2 |
| 5° | 3035.0 | 3064.1 | 3071.0 | 3097.4 | 3130.7 | 3173.7 | 3230.6 | 3305.5 | 3383.1 | 3395.6 |
| 7.5° | 2820.0 | 2850.5 | 2868.5 | 2921.2 | 2982.3 | 3071.0 | 3164.0 | 3273.6 | 3402.6 | 3420.6 |
| 10° | 2605.0 | 2632.7 | 2656.3 | 2731.2 | 2828.3 | 2960.1 | 3111.3 | 3269.4 | 3442.8 | 3469.1 |
| 12.5° | 2471.8 | 2498.2 | 2524.5 | 2589.7 | 2710.4 | 2871.3 | 3076.6 | 3288.8 | 3509.4 | 3546.8 |
| 15° | 2424.7 | 2448.2 | 2469.0 | 2527.3 | 2639.7 | 2822.8 | 3069.7 | 3329.0 | 3594.0 | 3643.9 |
| 17.5° | 2431.6 | 2444.1 | 2457.9 | 2502.3 | 2611.9 | 2800.6 | 3082.1 | 3398.4 | 3693.9 | 3738.2 |
| 20° | 2471.8 | 2478.8 | 2480.1 | 2510.7 | 2607.8 | 2797.8 | 3107.1 | 3465.0 | 3788.2 | 3847.8 |
| 22.5° | 2523.1 | 2525.9 | 2523.1 | 2543.9 | 2634.1 | 2818.6 | 3140.4 | 3545.4 | 3893.6 | 3949.1 |
| 25° | 2763.1 | 2710.4 | 2643.8 | 2603.6 | 2678.5 | 2858.8 | 3190.3 | 3653.6 | 4008.7 | 4062.8 |
| 27.5° | 3508.0 | 3356.8 | 3118.2 | 2850.5 | 2770.0 | 2917.1 | 3259.7 | 3763.2 | 4125.2 | 4173.8 |
| 30° | 4717.5 | 4519.2 | 4114.1 | 3510.8 | 3064.1 | 3039.1 | 3349.9 | 3872.8 | 4248.7 | 4301.4 |
| 32.5° | 5929.9 | 5881.3 | 5413.9 | 4578.8 | 3725.8 | 3311.0 | 3499.7 | 4021.2 | 4412.4 | 4454.0 |
| 35° | 7156.1 | 7057.6 | 6674.7 | 5849.4 | 4745.3 | 3864.5 | 3749.3 | 4215.4 | 4627.4 | 4674.5 |
| 37.5° | 8095.1 | 8035.5 | 7798.3 | 7118.6 | 5954.8 | 4718.9 | 4176.6 | 4516.4 | 4939.5 | 4992.2 |
| 40° | 8924.6 | 8896.9 | 8816.4 | 8368.4 | 7307.3 | 5836.9 | 4841.0 | 4982.5 | 5372.2 | 5434.7 |
| 42.5° | 9576.6 | 9641.7 | 9687.5 | 9562.7 | 8701.3 | 7113.1 | 5734.3 | 5637.2 | 5975.6 | 6039.4 |
| 45° | 10243.8 | 10265.9 | 10450.4 | 10630.8 | 10085.6 | 8447.5 | 6741.3 | 6404.3 | 6726.1 | 6805.1 |
| 47.5° | 10672.4 | 10761.1 | 11085.7 | 11403.4 | 11249.4 | 9770.8 | 7823.3 | 7310.0 | 7595.8 | 7744.2 |
| 50° | 10704.3 | 10872.1 | 11318.8 | 11872.2 | 12096.9 | 11030.2 | 8999.5 | 8342.0 | 8645.8 | 8809.5 |
| 52.5° | 10173.0 | 10433.8 | 11125.9 | 11936.0 | 12554.7 | 12096.9 | 10216.0 | 9374.0 | 9763.8 | 9977.4 |
| 55° | 7799.7 | 8140.9 | 10400.5 | 11589.2 | 12572.7 | 12905.6 | 11400.6 | 10449.0 | 11009.4 | 11250.8 |
| 57.5° | 6795.4 | 6967.4 | 8177.0 | 10987.2 | 12238.4 | 13231.6 | 12471.4 | 11472.7 | 12364.6 | 12664.2 |
| 60° | 5653.8 | 5879.9 | 6857.8 | 10002.4 | 11784.8 | 13263.5 | 13417.4 | 12793.2 | 13833.6 | 14170.6 |
| 62.5° | 3842.3 | 4087.8 | 5060.2 | 8310.1 | 11164.8 | 13248.2 | 14192.8 | 14152.6 | 15466.2 | 15828.2 |
| 65° | 2380.3 | 2534.2 | 3175.1 | 6785.7 | 10297.8 | 13264.9 | 15004.3 | 15803.3 | 17189.0 | 17556.6 |
| 67.5° | 1880.9 | 1951.7 | 2285.9 | 5210.0 | 8803.9 | 12890.3 | 15814.4 | 17355.4 | 18810.5 | 19101.8 |
| 70° | 1263.7 | 1306.7 | 1663.1 | 3492.7 | 6549.9 | 11162.0 | 15799.1 | 18135.0 | 19645.5 | 19791.2 |
| 72.5° | 665.8 | 699.1 | 972.4 | 1617.4 | 3956.0 | 7934.2 | 13317.6 | 17202.8 | 18814.7 | 18595.5 |
| 75° | 332.9 | 388.4 | 654.7 | 821.2 | 1689.5 | 4424.9 | 8269.9 | 13563.1 | 14808.7 | 13959.8 |
| 77.5° | 252.5 | 305.2 | 541.0 | 541.0 | 588.1 | 1489.7 | 3502.4 | 7397.4 | 6823.2 | 5681.6 |
| 80° | 160.9 | 208.1 | 473.0 | 409.2 | 245.5 | 378.7 | 912.7 | 2072.3 | 1449.5 | 1102.7 |
| 82.5° | 94.3 | 135.9 | 393.9 | 270.5 | 137.3 | 140.1 | 258.0 | 441.1 | 375.9 | 292.7 |
| 85° | 37.5 | 88.8 | 270.5 | 106.8 | 54.1 | 34.7 | 77.7 | 94.3 | 77.7 | 58.3 |
| 87.5° | 0.0 | 20.8 | 47.2 | 0.0 | 4.2 | 2.8 | 5.5 | 6.9 | 6.9 | 5.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

REPORT NUMBER: P951105
 CATALOG NUMBER: GALN-SB5B-835-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3426.1 | 0° | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 | 3426.1 |
| 3428.9 | 2.5° | 3441.4 | 3444.2 | 3452.5 | 3453.9 | 3434.5 | 3409.5 | 3399.8 | 3395.6 | 3379.0 | 3377.6 |
| 3451.1 | 5° | 3483.0 | 3495.5 | 3483.0 | 3446.9 | 3360.9 | 3240.3 | 3148.7 | 3073.8 | 3005.9 | 2985.0 |
| 3527.4 | 7.5° | 3566.2 | 3578.7 | 3541.3 | 3399.8 | 3183.4 | 2943.4 | 2727.0 | 2574.5 | 2437.1 | 2385.8 |
| 3620.3 | 10° | 3685.5 | 3702.2 | 3584.3 | 3298.5 | 2915.7 | 2530.1 | 2163.9 | 1905.9 | 1704.7 | 1622.9 |
| 3746.6 | 12.5° | 3835.3 | 3842.3 | 3607.9 | 3144.6 | 2567.5 | 2016.8 | 1498.1 | 1222.0 | 1043.1 | 976.5 |
| 3899.1 | 15° | 4000.4 | 3990.7 | 3610.6 | 2935.1 | 2093.1 | 1425.9 | 977.9 | 803.1 | 731.0 | 708.8 |
| 4051.7 | 17.5° | 4173.8 | 4133.6 | 3555.1 | 2632.7 | 1573.0 | 975.1 | 725.5 | 683.8 | 671.4 | 665.8 |
| 4202.9 | 20° | 4344.4 | 4254.2 | 3453.9 | 2237.4 | 1129.1 | 728.2 | 658.9 | 646.4 | 639.5 | 636.7 |
| 4355.5 | 22.5° | 4499.8 | 4345.8 | 3280.5 | 1778.3 | 819.8 | 643.6 | 622.8 | 611.7 | 599.2 | 593.7 |
| 4503.9 | 25° | 4651.0 | 4398.5 | 3036.4 | 1349.7 | 656.1 | 602.0 | 585.4 | 564.6 | 547.9 | 541.0 |
| 4663.4 | 27.5° | 4798.0 | 4431.8 | 2731.2 | 998.7 | 585.4 | 563.2 | 532.6 | 503.5 | 491.0 | 488.3 |
| 4834.1 | 30° | 4954.7 | 4442.9 | 2384.4 | 744.9 | 542.4 | 514.6 | 470.2 | 436.9 | 430.0 | 431.4 |
| 5064.3 | 32.5° | 5146.2 | 4459.5 | 2034.9 | 610.3 | 506.3 | 456.4 | 403.6 | 369.0 | 363.4 | 369.0 |
| 5400.0 | 35° | 5375.0 | 4492.8 | 1697.8 | 561.8 | 474.4 | 396.7 | 339.8 | 310.7 | 305.2 | 309.3 |
| 5830.0 | 37.5° | 5685.7 | 4546.9 | 1382.9 | 552.1 | 448.0 | 346.8 | 285.7 | 262.2 | 262.2 | 263.5 |
| 6357.1 | 40° | 6099.1 | 4691.2 | 1101.4 | 545.1 | 434.2 | 309.3 | 241.4 | 231.6 | 235.8 | 238.6 |
| 7028.4 | 42.5° | 6602.6 | 4997.7 | 911.3 | 536.8 | 418.9 | 292.7 | 219.2 | 215.0 | 221.9 | 224.7 |
| 7833.0 | 45° | 7167.2 | 5386.1 | 844.7 | 522.9 | 405.0 | 303.8 | 209.5 | 203.9 | 212.2 | 213.6 |
| 8734.6 | 47.5° | 7751.1 | 5766.2 | 836.4 | 507.7 | 391.2 | 320.4 | 206.7 | 194.2 | 203.9 | 205.3 |
| 9697.2 | 50° | 8342.0 | 6014.5 | 844.7 | 484.1 | 369.0 | 320.4 | 208.1 | 184.5 | 192.8 | 197.0 |
| 10695.9 | 52.5° | 8937.1 | 6128.2 | 839.2 | 432.8 | 330.1 | 301.0 | 208.1 | 176.2 | 184.5 | 187.3 |
| 11775.1 | 55° | 9514.1 | 6106.0 | 754.6 | 356.5 | 280.2 | 266.3 | 202.5 | 169.2 | 174.8 | 176.2 |
| 12794.6 | 57.5° | 9970.5 | 5796.7 | 597.8 | 277.4 | 227.5 | 221.9 | 184.5 | 160.9 | 165.1 | 163.7 |
| 13729.5 | 60° | 10209.1 | 5117.0 | 427.2 | 213.6 | 178.9 | 174.8 | 162.3 | 149.8 | 152.6 | 145.6 |
| 14521.6 | 62.5° | 10211.8 | 4218.2 | 285.7 | 169.2 | 142.9 | 138.7 | 138.7 | 134.5 | 131.8 | 117.9 |
| 15134.7 | 65° | 9994.1 | 3220.9 | 190.0 | 134.5 | 115.1 | 108.2 | 116.5 | 115.1 | 105.4 | 86.0 |
| 15321.9 | 67.5° | 9500.3 | 2111.2 | 144.3 | 105.4 | 88.8 | 84.6 | 92.9 | 97.1 | 90.2 | 72.1 |
| 14639.5 | 70° | 8484.9 | 1229.0 | 119.3 | 81.8 | 66.6 | 62.4 | 74.9 | 83.2 | 74.9 | 58.3 |
| 12513.1 | 72.5° | 7047.9 | 663.0 | 97.1 | 61.0 | 45.8 | 41.6 | 59.6 | 68.0 | 59.6 | 43.0 |
| 8028.5 | 75° | 4573.3 | 355.1 | 74.9 | 40.2 | 23.6 | 26.4 | 44.4 | 49.9 | 41.6 | 27.7 |
| 2356.7 | 77.5° | 1535.5 | 156.7 | 47.2 | 19.4 | 11.1 | 11.1 | 26.4 | 30.5 | 19.4 | 9.7 |
| 428.6 | 80° | 342.6 | 65.2 | 19.4 | 8.3 | 4.2 | 4.2 | 5.5 | 5.5 | 2.8 | 0.0 |
| 131.8 | 82.5° | 112.4 | 26.4 | 8.3 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 33.3 | 85° | 43.0 | 9.7 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11.1 | 87.5° | 16.6 | 1.4 | 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

| |
|-------------|
| <u>180°</u> |
| 3426.1 |
| 3380.4 |
| 2972.6 |
| 2365.0 |
| 1588.2 |
| 955.7 |
| 708.8 |
| 664.4 |
| 633.9 |
| 592.3 |
| 538.2 |
| 485.5 |
| 431.4 |
| 367.6 |
| 307.9 |
| 262.2 |
| 238.6 |
| 224.7 |
| 215.0 |
| 206.7 |
| 198.4 |
| 187.3 |
| 176.2 |
| 163.7 |
| 144.3 |
| 113.7 |
| 83.2 |
| 70.7 |
| 55.5 |
| 41.6 |
| 25.0 |
| 8.3 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |
| 0.0 |

F REPORT)