

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: P956563

Luminaire Tested: **GALN-SB9A-935-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9A-935-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

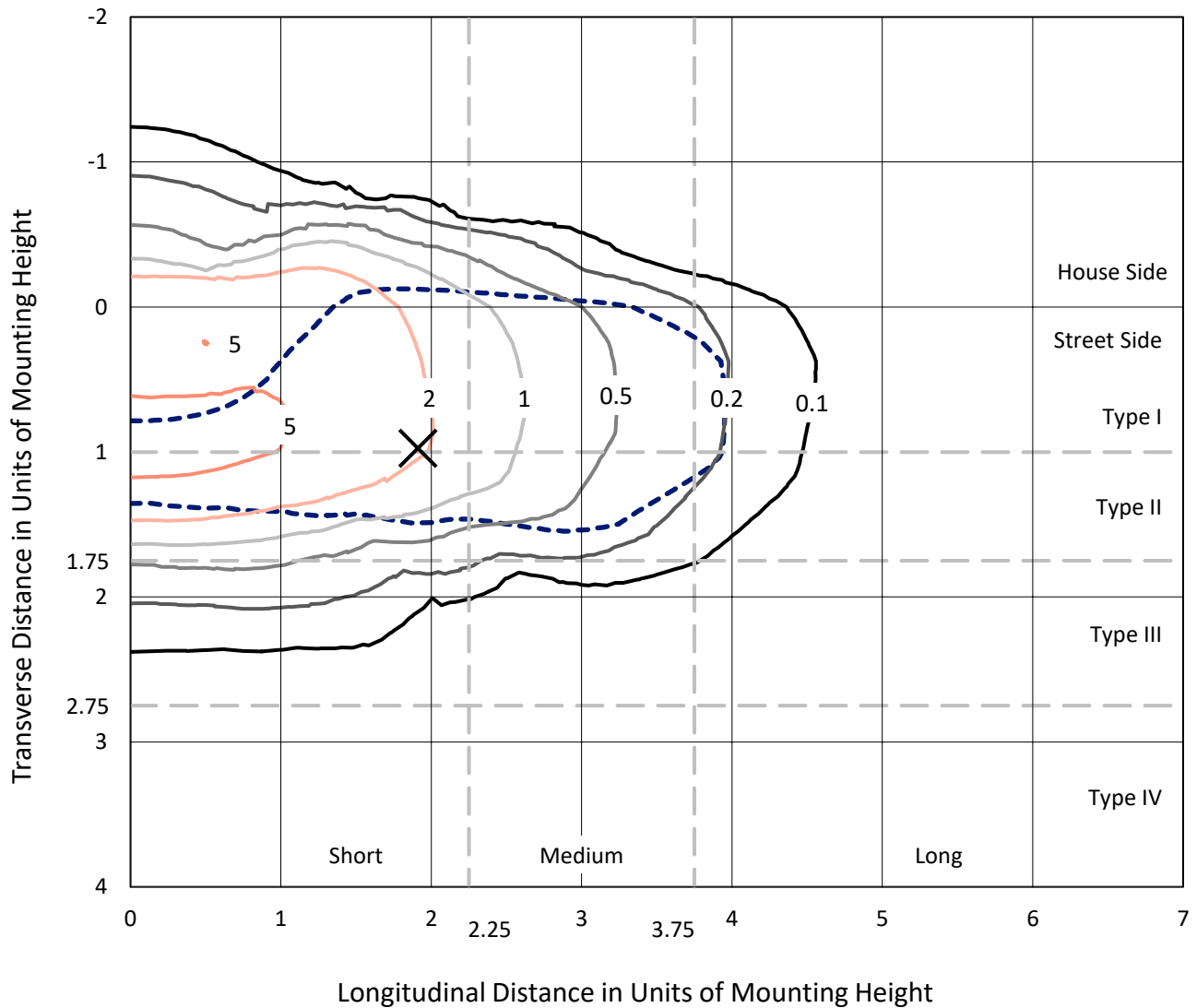
Lumens per Lamp: N/A  
Luminaire Lumens: 21722 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P956563  
 CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

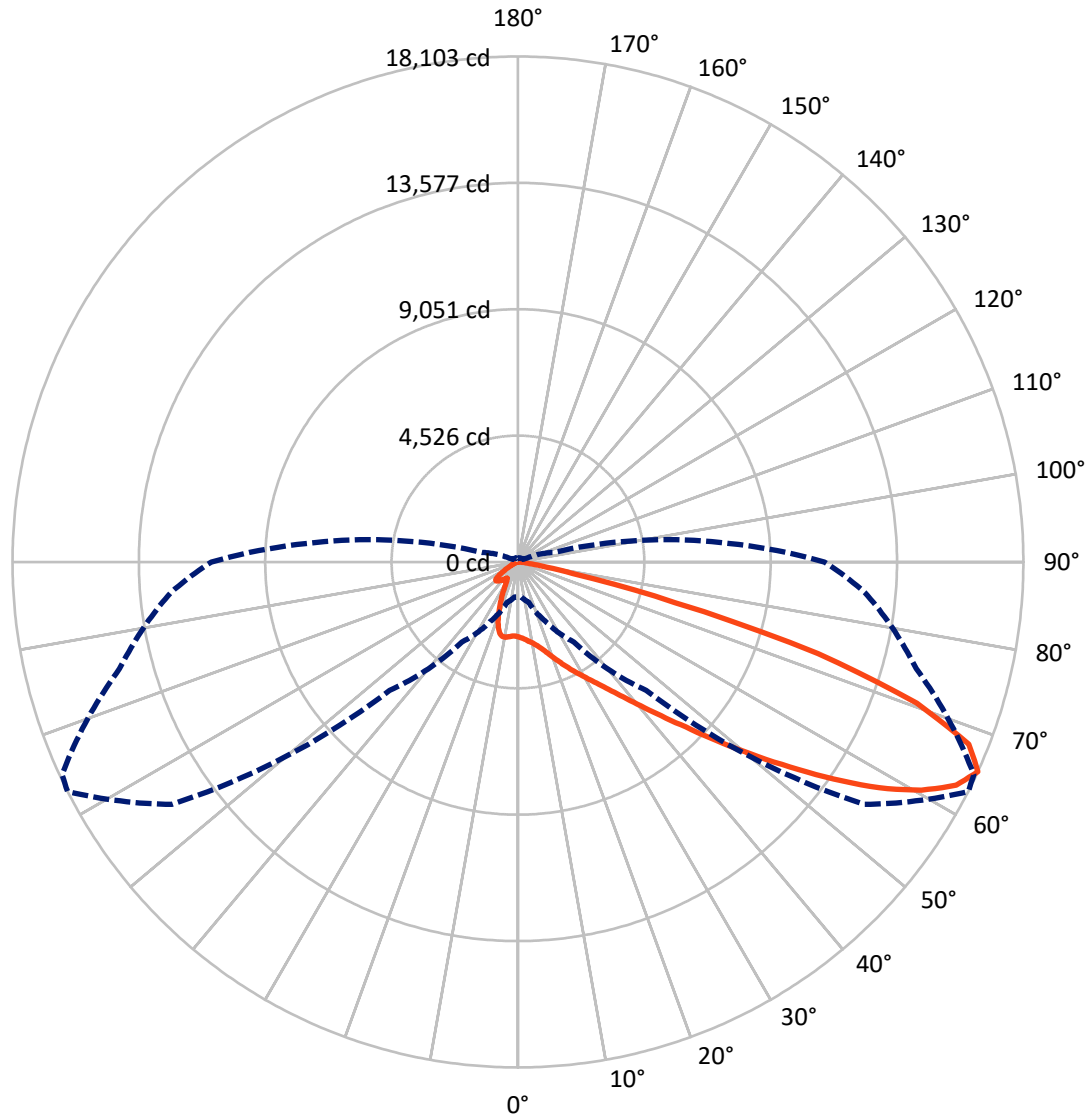
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P956563  
CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P956563  
 CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3193.0   | 0.0    | 3193.0  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 18529.0  | 0.0    | 18529.0 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 21722.0  | 0.0    | 21722.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 252.6   | 1.2       |
| 10°-20°   | 700.9   | 3.2       |
| 20°-30°   | 1220.4  | 5.6       |
| 30°-40°   | 2199.6  | 10.1      |
| 40°-50°   | 4362.4  | 20.1      |
| 50°-60°   | 5942.4  | 27.4      |
| 60°-70°   | 4743.2  | 21.8      |
| 70°-80°   | 2146.4  | 9.9       |
| 80°-90°   | 154.3   | 0.7       |
| 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°    | 21722.0 | 100.0     |
| 0°-180°   | 21722.0 | 100.0     |

**Coefficient of Utilization**



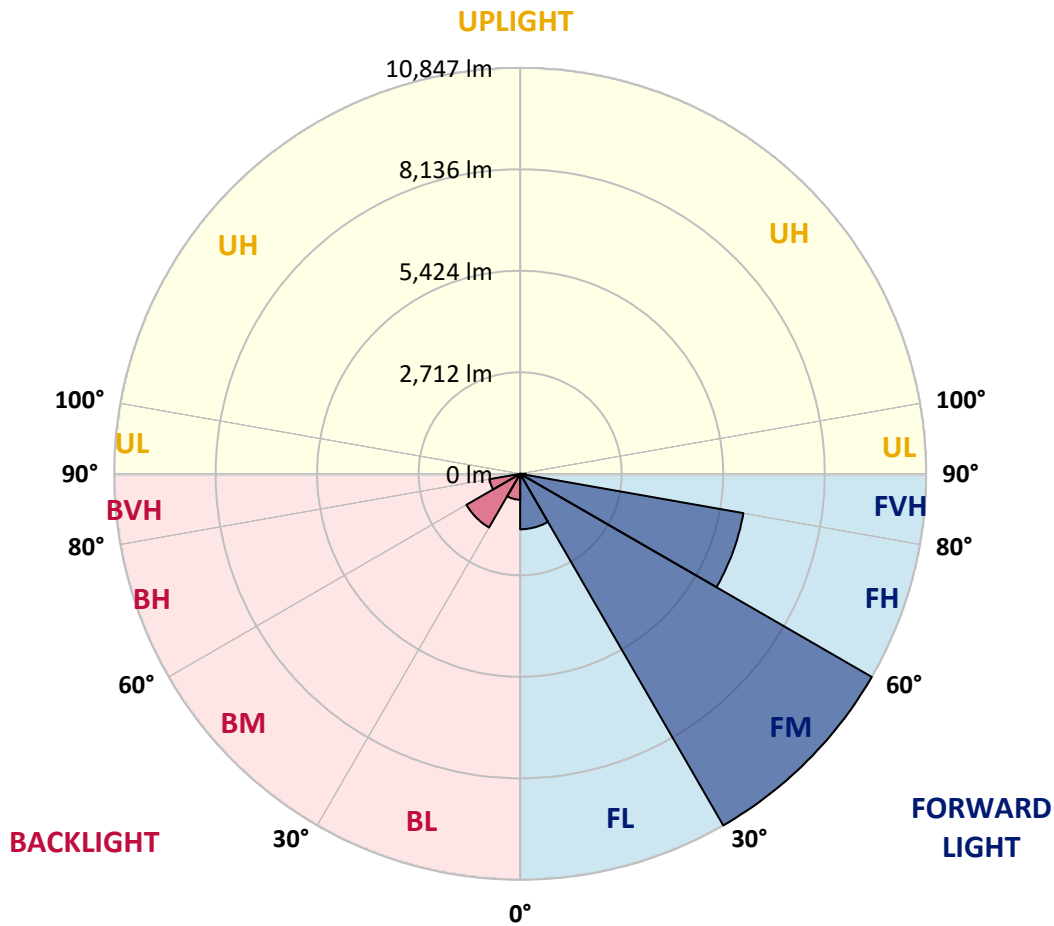
REPORT NUMBER: P956563  
 CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1482.8  | 6.8       |                         |      |         |
| FM (30°-60°)   | 10847.4 | 49.9      |                         |      |         |
| FH (60°-80°)   | 6056.0  | 27.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 142.8   | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 691.0   | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1657.0  | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 833.6   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 11.4    | 0.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type II Short



REPORT NUMBER: P956563

CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  | 2680.9  |
| 2.5°  | 2743.7  | 2736.2  | 2746.7  | 2742.2  | 2739.2  | 2733.2  | 2730.2  | 2727.2  | 2721.3  | 2716.8  |
| 5°    | 2751.1  | 2746.7  | 2757.1  | 2766.1  | 2775.1  | 2784.0  | 2788.5  | 2794.5  | 2788.5  | 2776.5  |
| 7.5°  | 2688.4  | 2685.4  | 2707.8  | 2734.7  | 2775.1  | 2809.4  | 2846.8  | 2867.7  | 2869.2  | 2864.7  |
| 10°   | 2683.9  | 2676.4  | 2698.8  | 2731.7  | 2784.0  | 2845.3  | 2911.0  | 2955.9  | 2961.8  | 2981.3  |
| 12.5° | 2754.1  | 2746.7  | 2778.0  | 2813.9  | 2867.7  | 2932.0  | 3012.7  | 3075.4  | 3084.4  | 3111.3  |
| 15°   | 2872.2  | 2861.7  | 2897.6  | 2943.9  | 3012.7  | 3085.9  | 3171.1  | 3227.8  | 3235.3  | 3268.2  |
| 17.5° | 3009.7  | 2999.2  | 3041.0  | 3090.4  | 3165.1  | 3265.2  | 3363.8  | 3426.6  | 3435.6  | 3456.5  |
| 20°   | 3186.0  | 3172.6  | 3205.4  | 3250.3  | 3329.5  | 3449.0  | 3567.1  | 3656.7  | 3655.2  | 3655.2  |
| 22.5° | 3390.7  | 3369.8  | 3398.2  | 3434.1  | 3508.8  | 3653.7  | 3810.7  | 3916.8  | 3916.8  | 3874.9  |
| 25°   | 3610.4  | 3589.5  | 3620.9  | 3653.7  | 3719.5  | 3883.9  | 4067.7  | 4199.2  | 4205.2  | 4133.4  |
| 27.5° | 3885.4  | 3858.5  | 3882.4  | 3921.2  | 3960.1  | 4127.5  | 4345.6  | 4498.1  | 4501.1  | 4390.5  |
| 30°   | 4414.4  | 4338.2  | 4263.4  | 4221.6  | 4239.5  | 4405.4  | 4638.5  | 4807.4  | 4822.3  | 4669.9  |
| 32.5° | 5382.7  | 5367.8  | 5104.8  | 4761.1  | 4581.7  | 4704.3  | 4965.8  | 5169.0  | 5178.0  | 4982.2  |
| 35°   | 6887.6  | 6869.6  | 6446.7  | 5792.2  | 5207.9  | 5104.8  | 5363.3  | 5603.9  | 5597.9  | 5376.8  |
| 37.5° | 8683.8  | 8667.4  | 8110.0  | 7234.3  | 6288.3  | 5710.0  | 5875.9  | 6128.4  | 6165.8  | 5875.9  |
| 40°   | 10218.5 | 10157.3 | 9804.6  | 8960.3  | 7722.9  | 6714.2  | 6605.1  | 6772.5  | 6811.4  | 6467.6  |
| 42.5° | 11381.1 | 11328.8 | 11149.5 | 10622.0 | 9459.4  | 8199.6  | 7464.4  | 7528.7  | 7572.0  | 7159.5  |
| 45°   | 11983.4 | 11971.4 | 12043.2 | 11993.8 | 11228.7 | 10022.8 | 8692.8  | 8425.3  | 8441.7  | 7926.2  |
| 47.5° | 12068.6 | 12062.6 | 12389.8 | 12853.1 | 12750.0 | 12079.0 | 10269.3 | 9543.1  | 9484.8  | 8791.4  |
| 50°   | 11566.4 | 11554.5 | 12182.1 | 13050.4 | 13766.2 | 13806.5 | 12059.6 | 10802.8 | 10674.3 | 9686.5  |
| 52.5° | 9963.0  | 9960.0  | 10991.1 | 12436.2 | 14123.3 | 15318.8 | 13828.9 | 12186.6 | 11971.4 | 10634.0 |
| 55°   | 7666.1  | 7721.4  | 8903.5  | 10611.5 | 13471.8 | 16046.6 | 15417.4 | 13722.8 | 13392.6 | 11587.4 |
| 57.5° | 5430.6  | 5511.2  | 6679.8  | 8201.1  | 11451.4 | 15616.2 | 16491.9 | 15262.0 | 14906.4 | 12537.8 |
| 60°   | 2917.0  | 2988.7  | 4158.8  | 5974.5  | 8519.4  | 14011.2 | 17058.3 | 16598.0 | 16261.8 | 13440.4 |
| 62.5° | 1738.0  | 1761.9  | 2246.0  | 3857.0  | 5762.3  | 10704.2 | 16817.7 | 17615.7 | 17339.2 | 14198.0 |
| 65°   | 1247.8  | 1252.3  | 1495.9  | 2355.1  | 3498.3  | 6503.5  | 15130.5 | 18102.8 | 18017.7 | 14768.9 |
| 67.5° | 1050.5  | 1047.6  | 1149.2  | 1564.6  | 2383.5  | 3257.7  | 11596.3 | 17413.9 | 17775.6 | 15130.5 |
| 70°   | 901.1   | 905.6   | 1025.1  | 1146.2  | 1791.8  | 1844.1  | 5765.3  | 15161.9 | 15933.0 | 15226.2 |
| 72.5° | 671.0   | 685.9   | 796.5   | 1044.6  | 1352.4  | 1268.7  | 1990.5  | 11242.2 | 12636.4 | 14346.0 |
| 75°   | 473.7   | 481.2   | 560.4   | 878.7   | 1008.7  | 923.5   | 1016.2  | 5811.6  | 7598.9  | 10998.6 |
| 77.5° | 364.6   | 378.1   | 424.4   | 614.2   | 993.8   | 648.6   | 621.7   | 2011.4  | 3090.4  | 6644.0  |
| 80°   | 197.3   | 221.2   | 306.3   | 443.8   | 697.9   | 458.8   | 307.8   | 801.0   | 1047.6  | 3106.8  |
| 82.5° | 101.6   | 113.6   | 213.7   | 319.8   | 397.5   | 400.5   | 152.4   | 333.2   | 431.9   | 959.4   |
| 85°   | 40.3    | 49.3    | 143.5   | 176.3   | 204.7   | 197.3   | 68.7    | 134.5   | 155.4   | 266.0   |
| 87.5° | 9.0     | 14.9    | 52.3    | 40.3    | 38.9    | 41.8    | 16.4    | 31.4    | 29.9    | 31.4    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P956563  
 CATALOG NUMBER: GALN-SB9A-935-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2680.9  | 0°    | 2680.9  | 2680.9 | 2680.9 | 2680.9 | 2680.9 | 2680.9 | 2680.9 | 2680.9 | 2680.9 | 2680.9 |
| 2698.8  | 2.5°  | 2697.3  | 2691.4 | 2674.9 | 2657.0 | 2636.1 | 2624.1 | 2616.6 | 2615.2 | 2604.7 | 2597.2 |
| 2758.6  | 5°    | 2742.2  | 2736.2 | 2704.8 | 2667.5 | 2627.1 | 2595.7 | 2565.8 | 2538.9 | 2500.1 | 2492.6 |
| 2845.3  | 7.5°  | 2831.8  | 2815.4 | 2764.6 | 2713.8 | 2637.6 | 2546.4 | 2435.8 | 2308.8 | 2195.2 | 2160.9 |
| 2960.4  | 10°   | 2942.4  | 2920.0 | 2855.7 | 2766.1 | 2597.2 | 2349.2 | 2081.7 | 1833.6 | 1636.3 | 1581.0 |
| 3096.3  | 12.5° | 3067.9  | 3048.5 | 2963.3 | 2797.5 | 2428.4 | 1978.5 | 1569.1 | 1261.3 | 1070.0 | 1022.2 |
| 3241.3  | 15°   | 3217.4  | 3189.0 | 3070.9 | 2749.6 | 2126.5 | 1503.3 | 1077.4 | 895.1  | 826.4  | 817.4  |
| 3407.2  | 17.5° | 3375.8  | 3329.5 | 3166.6 | 2577.8 | 1720.0 | 1068.5 | 832.4  | 780.1  | 750.2  | 741.2  |
| 3574.5  | 20°   | 3520.7  | 3461.0 | 3223.4 | 2317.8 | 1285.2 | 832.4  | 745.7  | 711.3  | 684.4  | 674.0  |
| 3741.9  | 22.5° | 3665.7  | 3580.5 | 3223.4 | 1963.6 | 963.9  | 738.2  | 684.4  | 653.0  | 621.7  | 608.2  |
| 3921.2  | 25°   | 3816.6  | 3703.1 | 3166.6 | 1569.1 | 775.6  | 677.0  | 626.1  | 591.8  | 564.9  | 548.4  |
| 4091.6  | 27.5° | 3963.1  | 3806.2 | 3036.6 | 1195.5 | 690.4  | 623.2  | 572.3  | 539.5  | 514.1  | 502.1  |
| 4276.9  | 30°   | 4102.1  | 3907.8 | 2854.3 | 907.1  | 635.1  | 570.9  | 523.0  | 494.6  | 469.2  | 457.3  |
| 4517.5  | 32.5° | 4290.3  | 4036.3 | 2660.0 | 744.2  | 587.3  | 521.5  | 478.2  | 451.3  | 428.9  | 419.9  |
| 4829.8  | 35°   | 4551.9  | 4226.1 | 2492.6 | 730.7  | 546.9  | 481.2  | 437.9  | 412.4  | 390.0  | 382.6  |
| 5233.3  | 37.5° | 4922.5  | 4532.4 | 2404.4 | 820.4  | 514.1  | 445.3  | 405.0  | 378.1  | 357.2  | 351.2  |
| 5745.9  | 40°   | 5379.7  | 4947.9 | 2452.3 | 910.1  | 491.6  | 413.9  | 375.1  | 348.2  | 330.3  | 322.8  |
| 6334.6  | 42.5° | 5922.2  | 5460.4 | 2716.8 | 978.8  | 476.7  | 387.0  | 346.7  | 316.8  | 304.9  | 301.9  |
| 7002.6  | 45°   | 6545.4  | 6023.8 | 3121.7 | 1052.0 | 452.8  | 361.6  | 318.3  | 295.9  | 286.9  | 285.4  |
| 7728.9  | 47.5° | 7253.7  | 6642.5 | 3591.0 | 1143.2 | 428.9  | 337.7  | 295.9  | 280.9  | 273.5  | 270.5  |
| 8486.5  | 50°   | 7956.0  | 7265.6 | 4073.7 | 1194.0 | 409.5  | 315.3  | 278.0  | 266.0  | 260.0  | 258.5  |
| 9287.5  | 52.5° | 8691.3  | 7906.7 | 4463.7 | 1146.2 | 393.0  | 297.4  | 263.0  | 254.0  | 248.1  | 246.6  |
| 10025.7 | 55°   | 9392.1  | 8425.3 | 4530.9 | 972.8  | 360.1  | 279.4  | 246.6  | 242.1  | 234.6  | 234.6  |
| 10774.4 | 57.5° | 9995.9  | 8685.3 | 4055.7 | 714.3  | 327.3  | 252.5  | 230.1  | 225.7  | 219.7  | 218.2  |
| 11449.9 | 60°   | 10550.3 | 8610.6 | 3130.7 | 481.2  | 291.4  | 225.7  | 209.2  | 206.2  | 200.2  | 192.8  |
| 12037.2 | 62.5° | 10862.6 | 8281.8 | 2141.4 | 313.8  | 255.5  | 197.3  | 185.3  | 183.8  | 170.4  | 155.4  |
| 12472.0 | 65°   | 10980.7 | 7606.4 | 1336.0 | 228.6  | 213.7  | 168.9  | 159.9  | 156.9  | 137.5  | 121.0  |
| 12718.6 | 67.5° | 10877.5 | 6494.5 | 674.0  | 180.8  | 168.9  | 140.5  | 131.5  | 131.5  | 118.1  | 103.1  |
| 12703.7 | 70°   | 10465.1 | 4868.7 | 283.9  | 145.0  | 130.0  | 107.6  | 107.6  | 113.6  | 100.1  | 83.7   |
| 12044.6 | 72.5° | 9570.0  | 3275.7 | 150.9  | 110.6  | 97.1   | 76.2   | 88.2   | 92.7   | 79.2   | 62.8   |
| 9858.4  | 75°   | 7607.9  | 1998.0 | 104.6  | 82.2   | 61.3   | 53.8   | 67.2   | 70.2   | 53.8   | 41.8   |
| 6759.0  | 77.5° | 5203.4  | 1147.7 | 70.2   | 52.3   | 38.9   | 31.4   | 46.3   | 43.3   | 28.4   | 19.4   |
| 2606.2  | 80°   | 2284.9  | 478.2  | 40.3   | 23.9   | 14.9   | 12.0   | 16.4   | 12.0   | 9.0    | 6.0    |
| 357.2   | 82.5° | 267.5   | 112.1  | 14.9   | 9.0    | 6.0    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    |
| 109.1   | 85°   | 55.3    | 13.4   | 7.5    | 3.0    | 1.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 19.4    | 87.5° | 10.5    | 3.0    | 1.5    | 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> |
| 2680.9      |
| 2604.7      |
| 2489.6      |
| 2144.4      |
| 1560.1      |
| 1008.7      |
| 808.5       |
| 736.7       |
| 668.0       |
| 600.7       |
| 542.5       |
| 502.1       |
| 458.8       |
| 419.9       |
| 382.6       |
| 349.7       |
| 321.3       |
| 301.9       |
| 283.9       |
| 270.5       |
| 258.5       |
| 246.6       |
| 233.1       |
| 216.7       |
| 191.3       |
| 152.4       |
| 119.5       |
| 101.6       |
| 82.2        |
| 62.8        |
| 40.3        |
| 20.9        |
| 6.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

F REPORT)