

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: P951418

Luminaire Tested: **GALN-SB5C-827-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951418  
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-SB5C-827-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

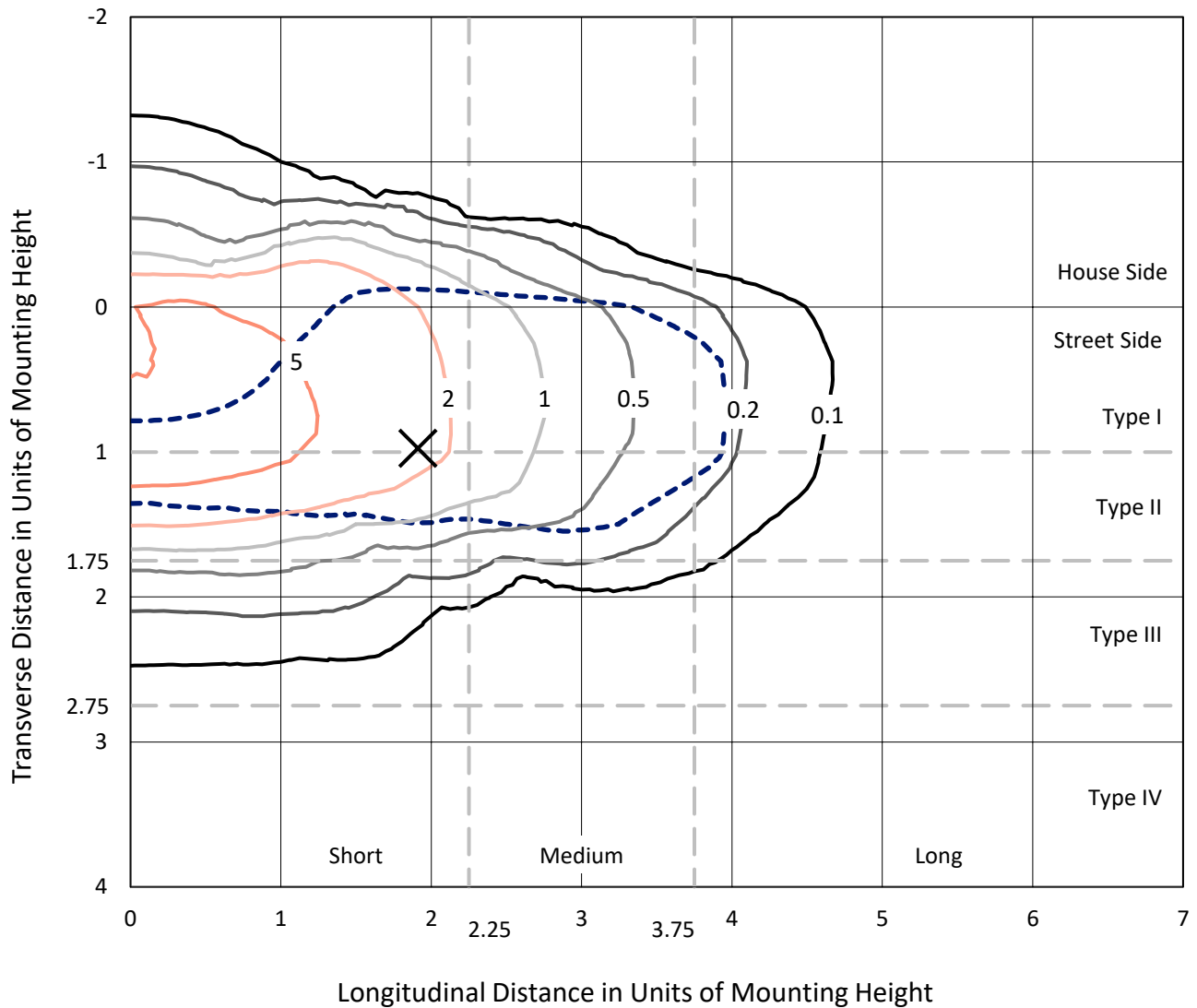
Lumens per Lamp: N/A  
Luminaire Lumens: 25141 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P951418  
 CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

### Iso-Footcandle Lines of Horizontal Illumination

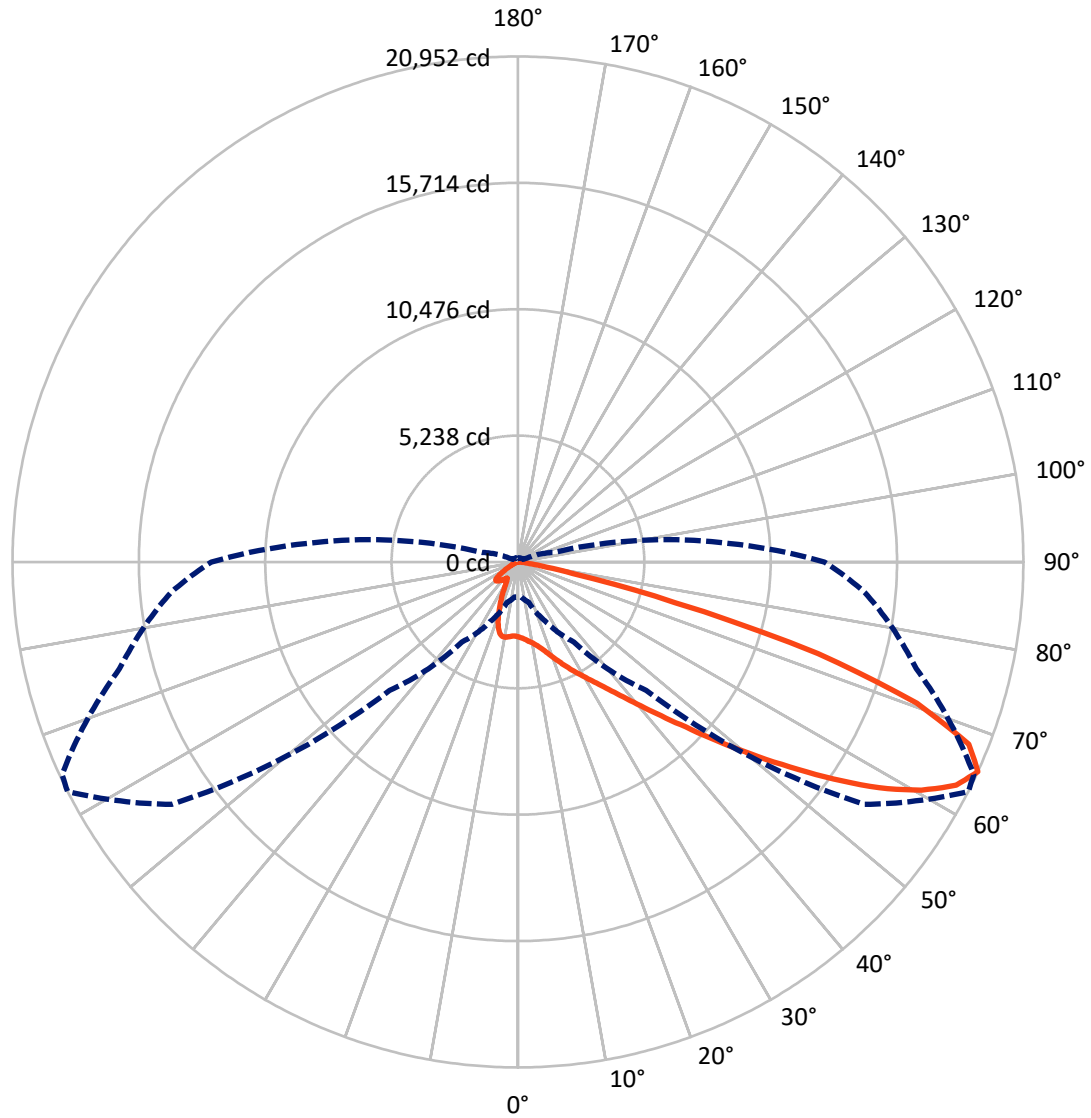
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P951418  
CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P951418  
 CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3695.5   | 0.0    | 3695.5  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 21445.5  | 0.0    | 21445.5 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 25141.0  | 0.0    | 25141.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 292.3   | 1.2       |
| 10°-20°   | 811.2   | 3.2       |
| 20°-30°   | 1412.4  | 5.6       |
| 30°-40°   | 2545.8  | 10.1      |
| 40°-50°   | 5049.1  | 20.1      |
| 50°-60°   | 6877.7  | 27.4      |
| 60°-70°   | 5489.7  | 21.8      |
| 70°-80°   | 2484.2  | 9.9       |
| 80°-90°   | 178.6   | 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°    | 25141.0 | 100.0     |
| 0°-180°   | 25141.0 | 100.0     |

**Coefficient of Utilization**



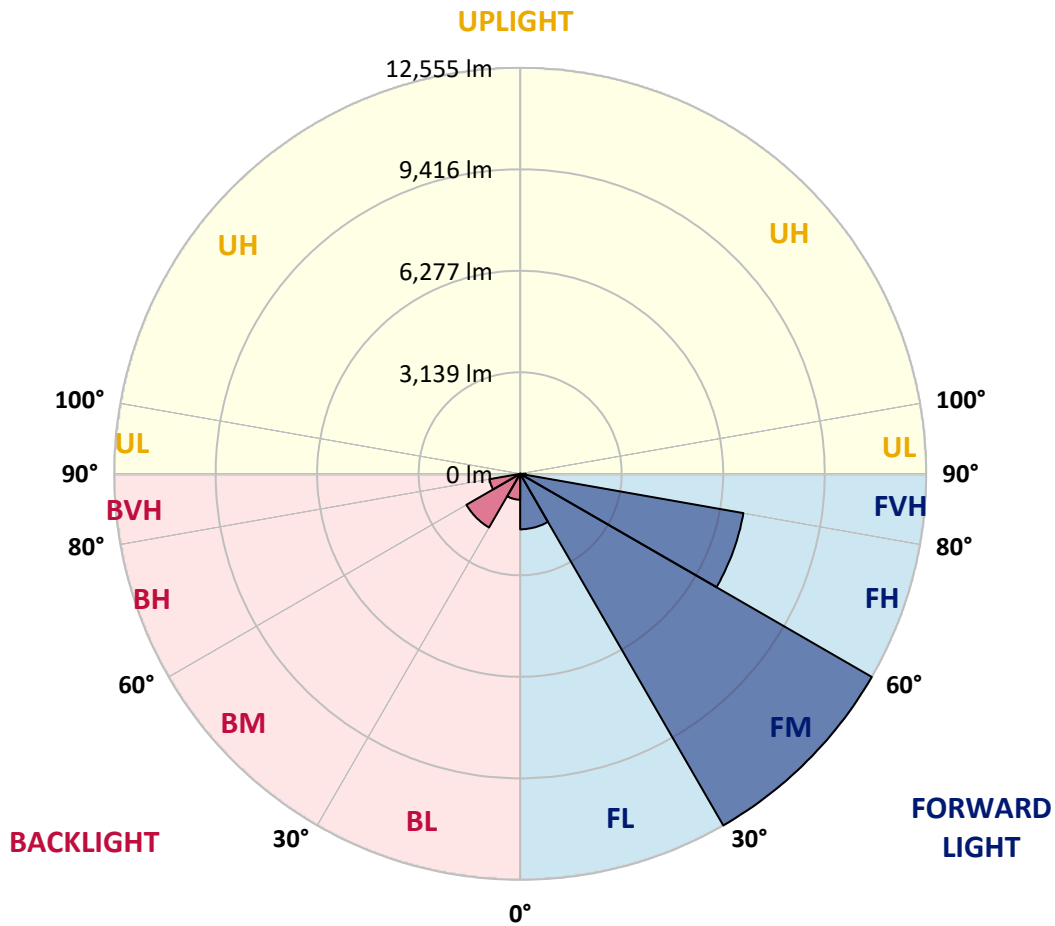
REPORT NUMBER: P951418  
 CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

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

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 1716.2  | 6.8       |                         |      |         |
| FM (30°-60°)   | 12554.8 | 49.9      |                         |      |         |
| FH (60°-80°)   | 7009.2  | 27.9      |                         |      | G3/7500 |
| FVH (80°-90°)  | 165.3   | 0.7       |                         |      | G2/225  |
| BL (0°-30°)    | 799.8   | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 1917.8  | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 964.8   | 3.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 13.3    | 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: P951418

CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  | 3102.9  |
| 2.5°  | 3175.5  | 3166.9  | 3179.0  | 3173.8  | 3170.3  | 3163.4  | 3160.0  | 3156.5  | 3149.6  | 3144.4  |
| 5°    | 3184.2  | 3179.0  | 3191.1  | 3201.5  | 3211.8  | 3222.2  | 3227.4  | 3234.3  | 3227.4  | 3213.6  |
| 7.5°  | 3111.5  | 3108.1  | 3134.0  | 3165.1  | 3211.8  | 3251.6  | 3294.9  | 3319.1  | 3320.8  | 3315.6  |
| 10°   | 3106.3  | 3097.7  | 3123.6  | 3161.7  | 3222.2  | 3293.1  | 3369.2  | 3421.1  | 3428.0  | 3450.5  |
| 12.5° | 3187.6  | 3179.0  | 3215.3  | 3256.8  | 3319.1  | 3393.4  | 3486.8  | 3559.5  | 3569.9  | 3601.0  |
| 15°   | 3324.3  | 3312.2  | 3353.7  | 3407.3  | 3486.8  | 3571.6  | 3670.2  | 3735.9  | 3744.6  | 3782.6  |
| 17.5° | 3483.4  | 3471.3  | 3519.7  | 3576.8  | 3663.3  | 3779.1  | 3893.3  | 3965.9  | 3976.3  | 4000.5  |
| 20°   | 3687.5  | 3671.9  | 3710.0  | 3761.8  | 3853.5  | 3991.9  | 4128.5  | 4232.3  | 4230.6  | 4230.6  |
| 22.5° | 3924.4  | 3900.2  | 3933.1  | 3974.6  | 4061.1  | 4228.8  | 4410.4  | 4533.2  | 4533.2  | 4484.8  |
| 25°   | 4178.7  | 4154.5  | 4190.8  | 4228.8  | 4304.9  | 4495.2  | 4707.9  | 4860.1  | 4867.1  | 4784.0  |
| 27.5° | 4496.9  | 4465.8  | 4493.5  | 4538.4  | 4583.4  | 4777.1  | 5029.6  | 5206.0  | 5209.5  | 5081.5  |
| 30°   | 5109.2  | 5021.0  | 4934.5  | 4886.1  | 4906.8  | 5098.8  | 5368.6  | 5564.1  | 5581.4  | 5405.0  |
| 32.5° | 6230.0  | 6212.7  | 5908.3  | 5510.5  | 5302.9  | 5444.7  | 5747.4  | 5982.6  | 5993.0  | 5766.4  |
| 35°   | 7971.7  | 7950.9  | 7461.4  | 6703.9  | 6027.6  | 5908.3  | 6207.5  | 6485.9  | 6479.0  | 6223.0  |
| 37.5° | 10050.6 | 10031.6 | 9386.5  | 8372.9  | 7278.1  | 6608.7  | 6800.7  | 7093.0  | 7136.3  | 6800.7  |
| 40°   | 11826.9 | 11756.0 | 11347.8 | 10370.6 | 8938.5  | 7771.0  | 7644.8  | 7838.5  | 7883.4  | 7485.6  |
| 42.5° | 13172.5 | 13112.0 | 12904.4 | 12293.9 | 10948.3 | 9490.2  | 8639.3  | 8713.6  | 8763.8  | 8286.4  |
| 45°   | 13869.5 | 13855.7 | 13938.7 | 13881.6 | 12996.1 | 11600.3 | 10061.0 | 9751.4  | 9770.4  | 9173.7  |
| 47.5° | 13968.1 | 13961.2 | 14340.0 | 14876.2 | 14756.8 | 13980.2 | 11885.7 | 11045.1 | 10977.7 | 10175.1 |
| 50°   | 13387.0 | 13373.1 | 14099.6 | 15104.5 | 15932.9 | 15979.6 | 13957.7 | 12503.2 | 12354.4 | 11211.2 |
| 52.5° | 11531.1 | 11527.7 | 12721.1 | 14393.6 | 16346.3 | 17730.0 | 16005.6 | 14104.8 | 13855.7 | 12307.7 |
| 55°   | 8872.8  | 8936.8  | 10304.9 | 12281.8 | 15592.2 | 18572.3 | 17844.1 | 15882.8 | 15500.5 | 13411.2 |
| 57.5° | 6285.3  | 6378.7  | 7731.2  | 9492.0  | 13253.8 | 18074.2 | 19087.7 | 17664.2 | 17252.6 | 14511.2 |
| 60°   | 3376.1  | 3459.2  | 4813.4  | 6914.9  | 9860.4  | 16216.6 | 19743.2 | 19210.5 | 18821.3 | 15555.9 |
| 62.5° | 2011.5  | 2039.2  | 2599.6  | 4464.1  | 6669.3  | 12389.0 | 19464.7 | 20388.3 | 20068.4 | 16432.8 |
| 65°   | 1444.2  | 1449.4  | 1731.3  | 2725.8  | 4049.0  | 7527.2  | 17512.0 | 20952.2 | 20853.6 | 17093.5 |
| 67.5° | 1215.9  | 1212.4  | 1330.1  | 1810.9  | 2758.7  | 3770.5  | 13421.6 | 20154.8 | 20573.4 | 17512.0 |
| 70°   | 1042.9  | 1048.1  | 1186.5  | 1326.6  | 2073.8  | 2134.3  | 6672.7  | 17548.4 | 18440.8 | 17622.7 |
| 72.5° | 776.6   | 793.9   | 921.9   | 1209.0  | 1565.3  | 1468.4  | 2303.8  | 13011.7 | 14625.4 | 16604.0 |
| 75°   | 548.3   | 556.9   | 648.6   | 1017.0  | 1167.5  | 1068.9  | 1176.1  | 6726.4  | 8794.9  | 12729.7 |
| 77.5° | 422.0   | 437.6   | 491.2   | 710.9   | 1150.2  | 750.6   | 719.5   | 2328.0  | 3576.8  | 7689.7  |
| 80°   | 228.3   | 256.0   | 354.6   | 513.7   | 807.7   | 531.0   | 356.3   | 927.1   | 1212.4  | 3595.8  |
| 82.5° | 117.6   | 131.4   | 247.3   | 370.1   | 460.1   | 463.5   | 176.4   | 385.7   | 499.8   | 1110.4  |
| 85°   | 46.7    | 57.1    | 166.0   | 204.1   | 237.0   | 228.3   | 79.6    | 155.7   | 179.9   | 307.9   |
| 87.5° | 10.4    | 17.3    | 60.5    | 46.7    | 45.0    | 48.4    | 19.0    | 36.3    | 34.6    | 36.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P951418  
 CATALOG NUMBER: GALN-SB5C-827-U-T2U-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3102.9  | 0°    | 3102.9  | 3102.9  | 3102.9 | 3102.9 | 3102.9 | 3102.9 | 3102.9 | 3102.9 | 3102.9 | 3102.9 |
| 3123.6  | 2.5°  | 3121.9  | 3115.0  | 3096.0 | 3075.2 | 3051.0 | 3037.2 | 3028.5 | 3026.8 | 3014.7 | 3006.0 |
| 3192.8  | 5°    | 3173.8  | 3166.9  | 3130.5 | 3087.3 | 3040.6 | 3004.3 | 2969.7 | 2938.6 | 2893.6 | 2884.9 |
| 3293.1  | 7.5°  | 3277.6  | 3258.5  | 3199.7 | 3140.9 | 3052.7 | 2947.2 | 2819.2 | 2672.2 | 2540.8 | 2501.0 |
| 3426.3  | 10°   | 3405.6  | 3379.6  | 3305.2 | 3201.5 | 3006.0 | 2718.9 | 2409.3 | 2122.2 | 1893.9 | 1829.9 |
| 3583.7  | 12.5° | 3550.8  | 3528.4  | 3429.8 | 3237.8 | 2810.6 | 2290.0 | 1816.1 | 1459.8 | 1238.4 | 1183.0 |
| 3751.5  | 15°   | 3723.8  | 3690.9  | 3554.3 | 3182.4 | 2461.2 | 1740.0 | 1247.0 | 1036.0 | 956.5  | 946.1  |
| 3943.5  | 17.5° | 3907.1  | 3853.5  | 3665.0 | 2983.5 | 1990.8 | 1236.7 | 963.4  | 902.8  | 868.3  | 857.9  |
| 4137.2  | 20°   | 4074.9  | 4005.7  | 3730.7 | 2682.6 | 1487.4 | 963.4  | 863.1  | 823.3  | 792.1  | 780.0  |
| 4330.9  | 22.5° | 4242.7  | 4144.1  | 3730.7 | 2272.7 | 1115.6 | 854.4  | 792.1  | 755.8  | 719.5  | 703.9  |
| 4538.4  | 25°   | 4417.4  | 4285.9  | 3665.0 | 1816.1 | 897.7  | 783.5  | 724.7  | 684.9  | 653.8  | 634.8  |
| 4735.6  | 27.5° | 4586.9  | 4405.3  | 3514.5 | 1383.7 | 799.1  | 721.2  | 662.4  | 624.4  | 595.0  | 581.1  |
| 4950.1  | 30°   | 4747.7  | 4522.9  | 3303.5 | 1049.9 | 735.1  | 660.7  | 605.4  | 572.5  | 543.1  | 529.3  |
| 5228.5  | 32.5° | 4965.6  | 4671.6  | 3078.7 | 861.3  | 679.7  | 603.6  | 553.5  | 522.3  | 496.4  | 486.0  |
| 5590.0  | 35°   | 5268.3  | 4891.3  | 2884.9 | 845.8  | 633.0  | 556.9  | 506.8  | 477.4  | 451.4  | 442.8  |
| 6057.0  | 37.5° | 5697.3  | 5245.8  | 2782.9 | 949.5  | 595.0  | 515.4  | 468.7  | 437.6  | 413.4  | 406.5  |
| 6650.3  | 40°   | 6226.5  | 5726.7  | 2838.2 | 1053.3 | 569.0  | 479.1  | 434.1  | 403.0  | 382.2  | 373.6  |
| 7331.7  | 42.5° | 6854.3  | 6319.9  | 3144.4 | 1132.9 | 551.7  | 448.0  | 401.3  | 366.7  | 352.8  | 349.4  |
| 8104.8  | 45°   | 7575.6  | 6972.0  | 3613.1 | 1217.6 | 524.1  | 418.6  | 368.4  | 342.5  | 332.1  | 330.4  |
| 8945.4  | 47.5° | 8395.4  | 7688.0  | 4156.2 | 1323.1 | 496.4  | 390.9  | 342.5  | 325.2  | 316.5  | 313.1  |
| 9822.3  | 50°   | 9208.3  | 8409.2  | 4714.8 | 1381.9 | 473.9  | 364.9  | 321.7  | 307.9  | 300.9  | 299.2  |
| 10749.4 | 52.5° | 10059.3 | 9151.2  | 5166.3 | 1326.6 | 454.9  | 344.2  | 304.4  | 294.0  | 287.1  | 285.4  |
| 11603.8 | 55°   | 10870.4 | 9751.4  | 5244.1 | 1126.0 | 416.8  | 323.4  | 285.4  | 280.2  | 271.5  | 271.5  |
| 12470.3 | 57.5° | 11569.2 | 10052.3 | 4694.1 | 826.7  | 378.8  | 292.3  | 266.4  | 261.2  | 254.2  | 252.5  |
| 13252.1 | 60°   | 12210.9 | 9965.9  | 3623.5 | 556.9  | 337.3  | 261.2  | 242.1  | 238.7  | 231.8  | 223.1  |
| 13931.8 | 62.5° | 12572.3 | 9585.4  | 2478.5 | 363.2  | 295.8  | 228.3  | 214.5  | 212.7  | 197.2  | 179.9  |
| 14435.1 | 65°   | 12709.0 | 8803.6  | 1546.2 | 264.6  | 247.3  | 195.4  | 185.1  | 181.6  | 159.1  | 140.1  |
| 14720.5 | 67.5° | 12589.6 | 7516.8  | 780.0  | 209.3  | 195.4  | 162.6  | 152.2  | 152.2  | 136.6  | 119.3  |
| 14703.2 | 70°   | 12112.3 | 5635.0  | 328.6  | 167.8  | 150.5  | 124.5  | 124.5  | 131.4  | 115.9  | 96.9   |
| 13940.5 | 72.5° | 11076.3 | 3791.2  | 174.7  | 128.0  | 112.4  | 88.2   | 102.0  | 107.2  | 91.7   | 72.6   |
| 11410.1 | 75°   | 8805.3  | 2312.5  | 121.1  | 95.1   | 70.9   | 62.3   | 77.8   | 81.3   | 62.3   | 48.4   |
| 7822.9  | 77.5° | 6022.4  | 1328.3  | 81.3   | 60.5   | 45.0   | 36.3   | 53.6   | 50.2   | 32.9   | 22.5   |
| 3016.4  | 80°   | 2644.5  | 553.5   | 46.7   | 27.7   | 17.3   | 13.8   | 19.0   | 13.8   | 10.4   | 6.9    |
| 413.4   | 82.5° | 309.6   | 129.7   | 17.3   | 10.4   | 6.9    | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    |
| 126.3   | 85°   | 64.0    | 15.6    | 8.6    | 3.5    | 1.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.5    | 87.5° | 12.1    | 3.5     | 1.7    | 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

|        |
|--------|
| 180°   |
| 3102.9 |
| 3014.7 |
| 2881.5 |
| 2482.0 |
| 1805.7 |
| 1167.5 |
| 935.7  |
| 852.7  |
| 773.1  |
| 695.3  |
| 627.8  |
| 581.1  |
| 531.0  |
| 486.0  |
| 442.8  |
| 404.7  |
| 371.9  |
| 349.4  |
| 328.6  |
| 313.1  |
| 299.2  |
| 285.4  |
| 269.8  |
| 250.8  |
| 221.4  |
| 176.4  |
| 138.4  |
| 117.6  |
| 95.1   |
| 72.6   |
| 46.7   |
| 24.2   |
| 6.9    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

F REPORT)