

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: P940166

Luminaire Tested: **GALN-SB3A-835-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940166  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3A-835-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

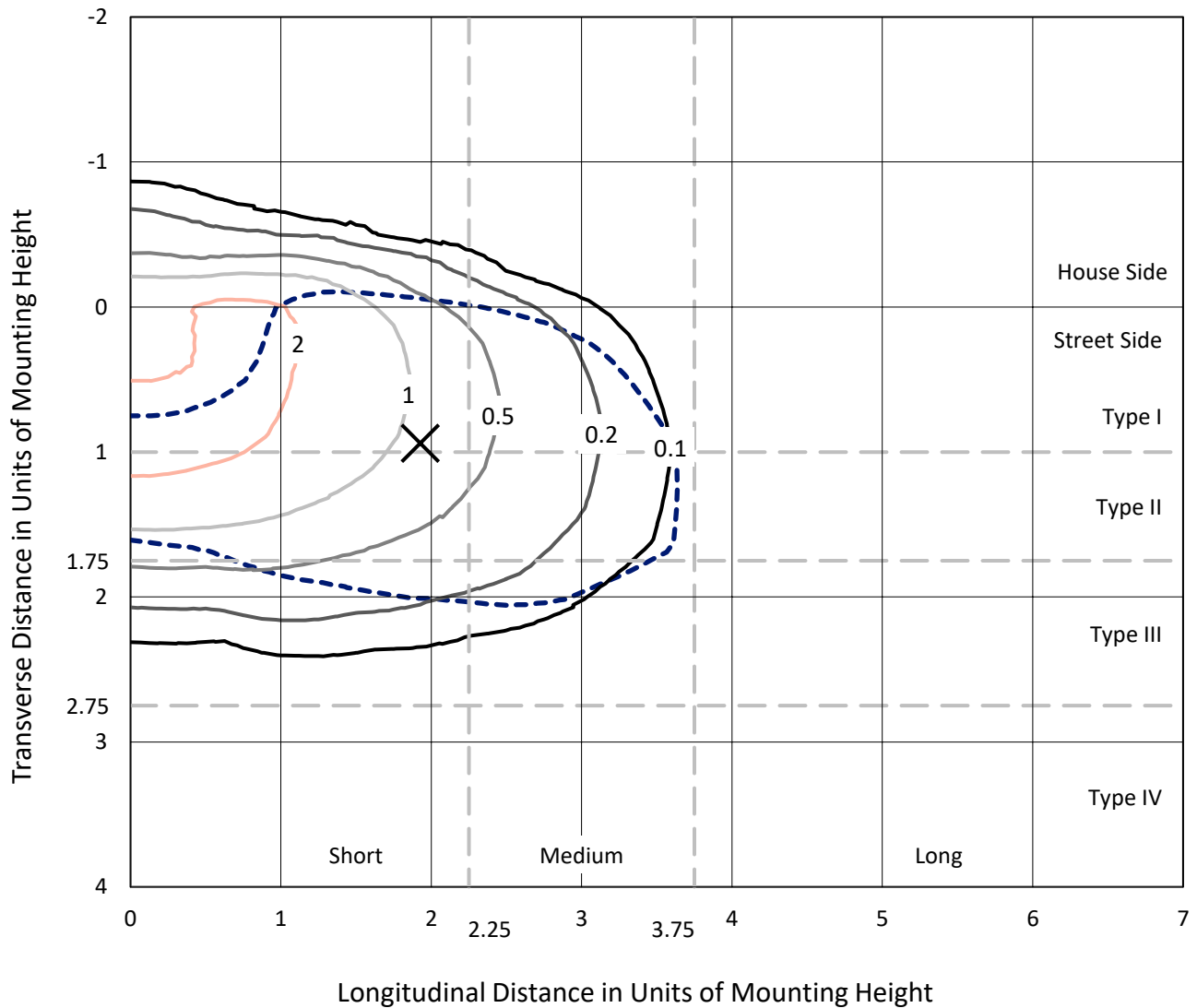
Lumens per Lamp: N/A  
Luminaire Lumens: 9791 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P940166  
 CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

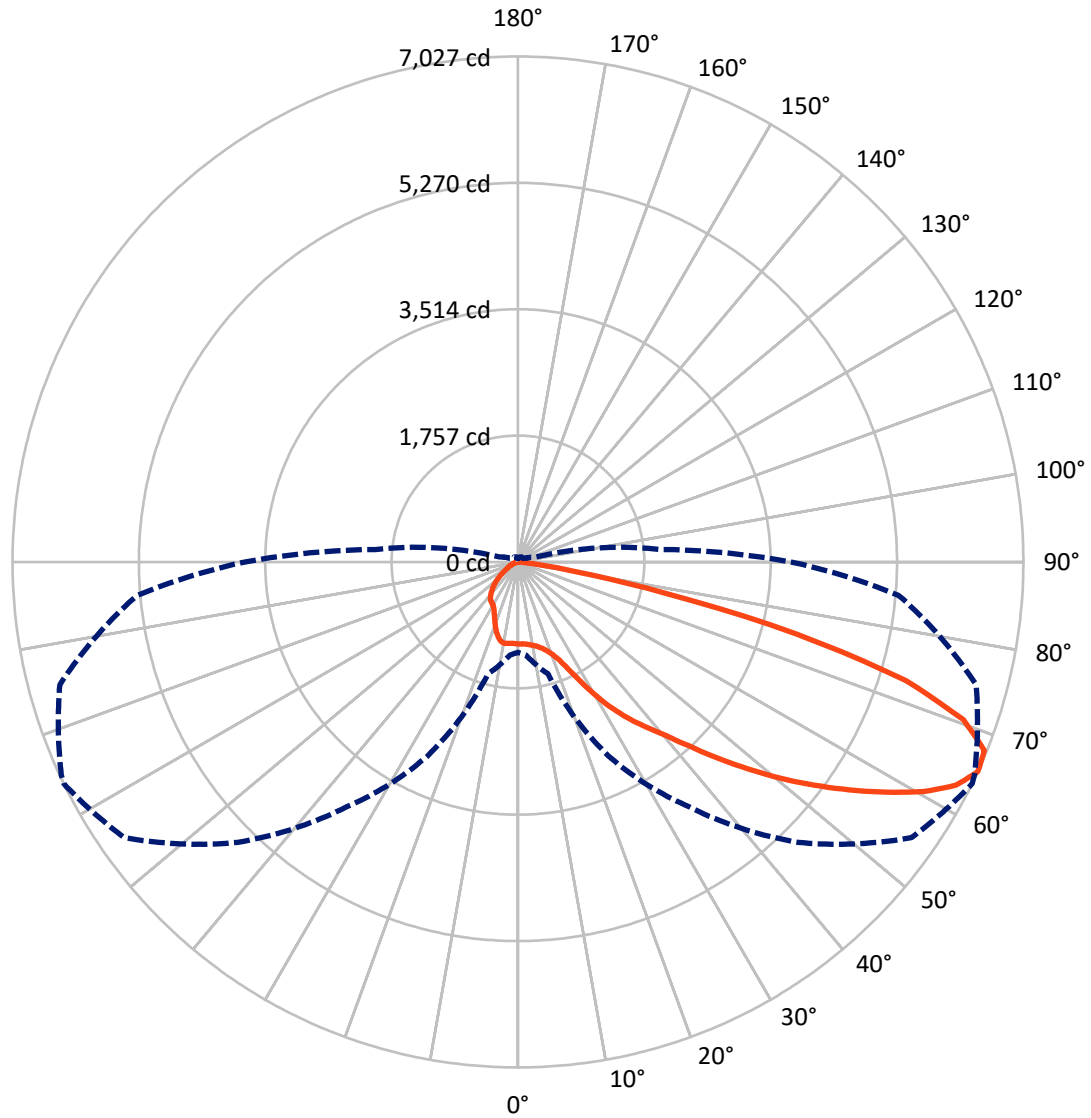
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P940166  
CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P940166  
 CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1309.4   | 0.0    | 1309.4 |
|                    | % Fixture | 13.4     | 0.0    | 13.4   |
| <b>Street Side</b> | Lumens    | 8481.6   | 0.0    | 8481.6 |
|                    | % Fixture | 86.6     | 0.0    | 86.6   |
| <b>Total</b>       | Lumens    | 9791.0   | 0.0    | 9791.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 105.1  | 1.1       |
| 10°-20°   | 285.0  | 2.9       |
| 20°-30°   | 540.0  | 5.5       |
| 30°-40°   | 1092.7 | 11.2      |
| 40°-50°   | 1861.4 | 19.0      |
| 50°-60°   | 2531.4 | 25.9      |
| 60°-70°   | 2377.1 | 24.3      |
| 70°-80°   | 952.4  | 9.7       |
| 80°-90°   | 46.1   | 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°    | 9791.0 | 100.0     |
| 0°-180°   | 9791.0 | 100.0     |

**Coefficient of Utilization**



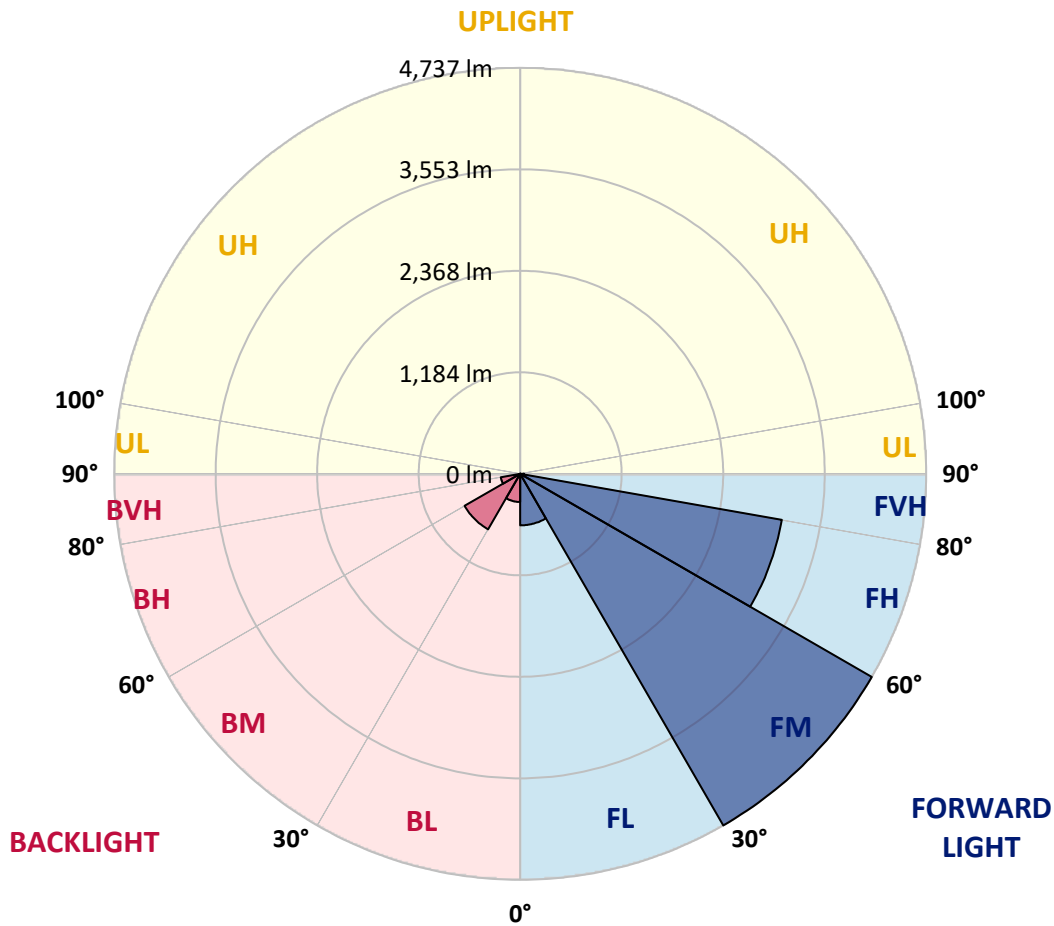
REPORT NUMBER: P940166  
 CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 601.3  | 6.1       |                         |      |         |
| FM (30°-60°)   | 4736.9 | 48.4      |                         |      |         |
| FH (60°-80°)   | 3099.6 | 31.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 43.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 328.7  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 748.6  | 7.6       | B1/1000                 |      |         |
| BH (60°-80°)   | 229.8  | 2.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 2.3    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short



REPORT NUMBER: P940166

CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 |
| 2.5°  | 1134.9 | 1142.7 | 1140.8 | 1138.8 | 1138.1 | 1139.5 | 1140.1 | 1139.5 | 1139.5 | 1139.5 |
| 5°    | 1113.2 | 1119.8 | 1119.8 | 1124.4 | 1130.9 | 1138.8 | 1144.7 | 1146.0 | 1147.3 | 1149.3 |
| 7.5°  | 1071.8 | 1077.1 | 1081.0 | 1096.1 | 1112.5 | 1133.5 | 1151.3 | 1160.5 | 1161.8 | 1169.0 |
| 10°   | 1043.6 | 1050.2 | 1056.7 | 1072.5 | 1096.1 | 1127.6 | 1157.8 | 1180.1 | 1183.4 | 1200.5 |
| 12.5° | 1042.3 | 1048.9 | 1057.4 | 1074.5 | 1102.0 | 1135.5 | 1172.3 | 1204.4 | 1210.3 | 1235.3 |
| 15°   | 1056.1 | 1064.0 | 1071.8 | 1092.8 | 1122.4 | 1163.1 | 1202.5 | 1242.5 | 1248.4 | 1283.9 |
| 17.5° | 1084.3 | 1094.8 | 1100.7 | 1121.7 | 1153.2 | 1198.5 | 1250.4 | 1296.3 | 1301.6 | 1342.9 |
| 20°   | 1140.1 | 1152.6 | 1154.5 | 1171.6 | 1202.5 | 1251.0 | 1312.7 | 1369.8 | 1376.4 | 1423.7 |
| 22.5° | 1255.6 | 1273.3 | 1257.6 | 1266.1 | 1293.7 | 1342.3 | 1409.2 | 1481.4 | 1490.6 | 1544.4 |
| 25°   | 1459.1 | 1484.0 | 1443.3 | 1428.9 | 1440.7 | 1491.3 | 1575.3 | 1666.5 | 1677.0 | 1720.3 |
| 27.5° | 1858.8 | 1826.7 | 1765.0 | 1704.6 | 1669.1 | 1698.0 | 1792.5 | 1905.4 | 1918.6 | 1960.6 |
| 30°   | 2297.9 | 2269.7 | 2186.4 | 2052.5 | 1968.4 | 1963.8 | 2051.1 | 2177.2 | 2192.3 | 2232.3 |
| 32.5° | 2737.7 | 2710.8 | 2620.2 | 2455.5 | 2309.8 | 2237.6 | 2297.9 | 2437.7 | 2445.6 | 2471.2 |
| 35°   | 3170.2 | 3142.7 | 3052.1 | 2883.4 | 2704.2 | 2540.1 | 2528.3 | 2685.8 | 2688.5 | 2715.4 |
| 37.5° | 3605.4 | 3582.4 | 3486.0 | 3320.6 | 3144.0 | 2917.5 | 2807.9 | 2920.8 | 2924.1 | 2950.4 |
| 40°   | 3915.9 | 3925.7 | 3859.4 | 3731.4 | 3579.8 | 3332.4 | 3121.7 | 3170.9 | 3151.2 | 3195.2 |
| 42.5° | 4182.4 | 4202.1 | 4144.3 | 4080.0 | 3992.0 | 3774.1 | 3510.2 | 3501.7 | 3470.2 | 3493.8 |
| 45°   | 4412.7 | 4429.2 | 4377.3 | 4362.2 | 4360.2 | 4207.3 | 3934.9 | 3883.7 | 3839.7 | 3835.1 |
| 47.5° | 4497.4 | 4528.9 | 4551.2 | 4601.8 | 4700.2 | 4635.9 | 4374.0 | 4294.6 | 4245.4 | 4209.3 |
| 50°   | 4529.6 | 4563.1 | 4639.2 | 4786.2 | 5019.2 | 5046.8 | 4811.2 | 4721.9 | 4661.5 | 4595.9 |
| 52.5° | 4486.3 | 4546.0 | 4648.4 | 4895.8 | 5233.9 | 5376.3 | 5230.6 | 5152.5 | 5083.6 | 4976.6 |
| 55°   | 4230.9 | 4290.7 | 4500.0 | 4894.5 | 5340.8 | 5607.3 | 5627.0 | 5592.2 | 5514.8 | 5346.1 |
| 57.5° | 3692.7 | 3781.3 | 4112.8 | 4727.8 | 5338.9 | 5806.2 | 6015.6 | 6040.5 | 5953.9 | 5712.4 |
| 60°   | 2947.1 | 3067.2 | 3471.5 | 4358.3 | 5174.1 | 5913.9 | 6356.2 | 6481.0 | 6389.1 | 6073.4 |
| 62.5° | 2056.4 | 2195.5 | 2578.2 | 3779.4 | 4797.4 | 5836.4 | 6605.0 | 6835.4 | 6765.8 | 6396.3 |
| 65°   | 1254.3 | 1298.9 | 1607.4 | 2974.0 | 4156.8 | 5512.2 | 6681.8 | 7027.1 | 7004.1 | 6593.9 |
| 67.5° | 835.6  | 873.0  | 961.6  | 2039.3 | 3226.7 | 4864.3 | 6498.0 | 6993.6 | 7000.1 | 6561.7 |
| 70°   | 503.4  | 535.6  | 593.4  | 1186.1 | 2091.2 | 3850.2 | 5929.0 | 6566.9 | 6605.0 | 6131.8 |
| 72.5° | 207.4  | 229.1  | 281.6  | 537.6  | 1083.0 | 2443.7 | 4721.2 | 5638.2 | 5726.8 | 5155.8 |
| 75°   | 117.5  | 128.6  | 165.4  | 269.8  | 470.0  | 1138.8 | 2859.8 | 4002.5 | 4133.1 | 3553.6 |
| 77.5° | 78.1   | 83.4   | 107.0  | 174.6  | 264.5  | 388.6  | 1222.2 | 2085.3 | 2334.7 | 1940.9 |
| 80°   | 52.5   | 57.1   | 73.5   | 116.8  | 172.0  | 166.7  | 389.2  | 772.5  | 950.4  | 666.9  |
| 82.5° | 35.4   | 36.1   | 52.5   | 76.8   | 109.0  | 80.7   | 114.9  | 240.2  | 301.9  | 193.0  |
| 85°   | 20.3   | 19.7   | 38.7   | 44.6   | 48.6   | 33.5   | 34.8   | 72.2   | 94.5   | 81.4   |
| 87.5° | 2.6    | 3.9    | 15.1   | 11.8   | 6.6    | 7.2    | 7.2    | 12.5   | 18.4   | 19.7   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P940166  
 CATALOG NUMBER: GALN-SB3A-835-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1138.8 | 0°    | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 | 1138.8 |
| 1140.1 | 2.5°  | 1140.1 | 1139.5 | 1137.5 | 1135.5 | 1130.9 | 1128.3 | 1129.6 | 1128.3 | 1127.6 | 1128.3 |
| 1148.6 | 5°    | 1148.6 | 1146.7 | 1141.4 | 1134.9 | 1125.7 | 1114.5 | 1107.3 | 1096.8 | 1086.9 | 1081.0 |
| 1171.6 | 7.5°  | 1171.6 | 1169.6 | 1162.4 | 1144.0 | 1114.5 | 1067.9 | 1025.2 | 987.8  | 959.6  | 943.2  |
| 1208.4 | 10°   | 1208.4 | 1205.1 | 1193.9 | 1153.2 | 1075.8 | 974.0  | 889.4  | 819.1  | 773.2  | 751.5  |
| 1251.7 | 12.5° | 1251.7 | 1247.8 | 1228.1 | 1144.7 | 1002.3 | 843.4  | 726.6  | 648.5  | 605.8  | 586.8  |
| 1301.6 | 15°   | 1302.9 | 1297.6 | 1258.9 | 1104.0 | 895.3  | 699.0  | 592.0  | 533.6  | 506.1  | 489.0  |
| 1365.2 | 17.5° | 1366.6 | 1357.4 | 1281.9 | 1043.0 | 779.1  | 588.8  | 509.3  | 465.4  | 441.1  | 424.7  |
| 1448.6 | 20°   | 1449.3 | 1434.2 | 1300.3 | 970.1  | 672.1  | 519.2  | 453.5  | 416.8  | 398.4  | 384.0  |
| 1566.7 | 22.5° | 1564.8 | 1543.1 | 1322.6 | 891.3  | 596.6  | 471.3  | 412.2  | 385.3  | 370.2  | 353.8  |
| 1731.5 | 25°   | 1707.9 | 1682.3 | 1350.1 | 818.5  | 544.8  | 429.9  | 382.0  | 359.7  | 342.0  | 322.9  |
| 1947.4 | 27.5° | 1908.1 | 1862.1 | 1383.0 | 758.8  | 500.2  | 394.5  | 354.4  | 329.5  | 309.1  | 293.4  |
| 2192.3 | 30°   | 2131.2 | 2055.7 | 1411.8 | 722.7  | 459.5  | 361.7  | 318.3  | 293.4  | 274.4  | 263.2  |
| 2412.1 | 32.5° | 2342.6 | 2240.2 | 1430.9 | 706.9  | 422.7  | 324.2  | 279.0  | 252.0  | 237.6  | 234.3  |
| 2627.4 | 35°   | 2542.1 | 2406.9 | 1428.9 | 691.8  | 389.9  | 286.8  | 240.2  | 212.7  | 201.5  | 203.5  |
| 2859.1 | 37.5° | 2771.8 | 2584.8 | 1415.1 | 668.2  | 363.0  | 252.7  | 206.8  | 182.5  | 172.6  | 173.3  |
| 3140.7 | 40°   | 3039.0 | 2790.2 | 1406.6 | 623.5  | 333.4  | 221.2  | 179.2  | 159.5  | 152.3  | 149.7  |
| 3437.4 | 42.5° | 3323.8 | 2989.1 | 1407.9 | 573.0  | 296.7  | 193.0  | 160.2  | 143.7  | 137.2  | 135.2  |
| 3767.5 | 45°   | 3610.0 | 3178.8 | 1409.9 | 520.5  | 258.0  | 171.3  | 146.4  | 132.6  | 128.6  | 126.0  |
| 4102.3 | 47.5° | 3879.1 | 3340.2 | 1373.1 | 464.1  | 219.9  | 154.9  | 135.2  | 126.0  | 122.7  | 119.5  |
| 4438.3 | 50°   | 4129.9 | 3447.9 | 1284.5 | 398.4  | 189.7  | 141.8  | 126.7  | 120.1  | 116.8  | 113.6  |
| 4742.9 | 52.5° | 4324.8 | 3465.0 | 1138.1 | 330.8  | 168.7  | 131.9  | 121.4  | 115.5  | 111.6  | 108.3  |
| 4989.0 | 55°   | 4411.4 | 3358.0 | 930.1  | 267.8  | 152.3  | 123.4  | 116.2  | 110.3  | 105.7  | 102.4  |
| 5182.7 | 57.5° | 4389.1 | 3132.8 | 725.3  | 215.3  | 136.5  | 114.9  | 109.6  | 105.7  | 100.4  | 95.2   |
| 5339.5 | 60°   | 4279.5 | 2831.6 | 546.8  | 179.2  | 122.1  | 105.7  | 102.4  | 99.1   | 91.9   | 84.0   |
| 5399.9 | 62.5° | 4089.8 | 2452.8 | 389.9  | 148.3  | 106.3  | 95.2   | 93.9   | 91.2   | 80.7   | 66.3   |
| 5310.7 | 65°   | 3799.7 | 1992.7 | 262.5  | 123.4  | 91.2   | 83.4   | 84.0   | 79.4   | 65.6   | 49.2   |
| 4983.8 | 67.5° | 3375.7 | 1457.1 | 168.0  | 101.1  | 76.1   | 69.6   | 70.2   | 67.6   | 55.8   | 42.0   |
| 4364.2 | 70°   | 2835.5 | 964.9  | 109.6  | 76.8   | 61.0   | 53.8   | 57.8   | 58.4   | 47.3   | 34.1   |
| 3349.4 | 72.5° | 2078.7 | 569.7  | 76.8   | 57.1   | 44.6   | 37.4   | 47.3   | 48.6   | 38.1   | 25.6   |
| 2015.0 | 75°   | 1184.7 | 270.4  | 57.8   | 41.4   | 27.6   | 26.3   | 36.8   | 36.8   | 26.3   | 17.1   |
| 872.3  | 77.5° | 497.5  | 112.9  | 40.7   | 26.9   | 15.8   | 15.1   | 24.9   | 23.0   | 13.1   | 7.9    |
| 212.7  | 80°   | 143.7  | 50.5   | 21.7   | 13.1   | 6.6    | 5.9    | 9.8    | 7.2    | 3.3    | 1.3    |
| 80.7   | 82.5° | 56.4   | 22.3   | 8.5    | 5.3    | 2.6    | 2.6    | 1.3    | 0.0    | 0.0    | 0.0    |
| 45.9   | 85°   | 33.5   | 9.2    | 3.9    | 2.0    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 9.8    | 87.5° | 8.5    | 2.0    | 1.3    | 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°   |
| 1138.8 |
| 1130.9 |
| 1082.3 |
| 943.9  |
| 749.6  |
| 584.8  |
| 489.6  |
| 423.4  |
| 381.3  |
| 351.2  |
| 321.0  |
| 290.1  |
| 261.2  |
| 236.3  |
| 203.5  |
| 175.9  |
| 149.0  |
| 134.6  |
| 126.0  |
| 119.5  |
| 113.6  |
| 107.6  |
| 101.7  |
| 94.5   |
| 82.7   |
| 65.0   |
| 47.9   |
| 40.0   |
| 32.8   |
| 24.3   |
| 15.8   |
| 7.9    |
| 1.3    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |

F REPORT)