

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: P646722

Luminaire Tested: **GALN-SA1C-835-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5560.1 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

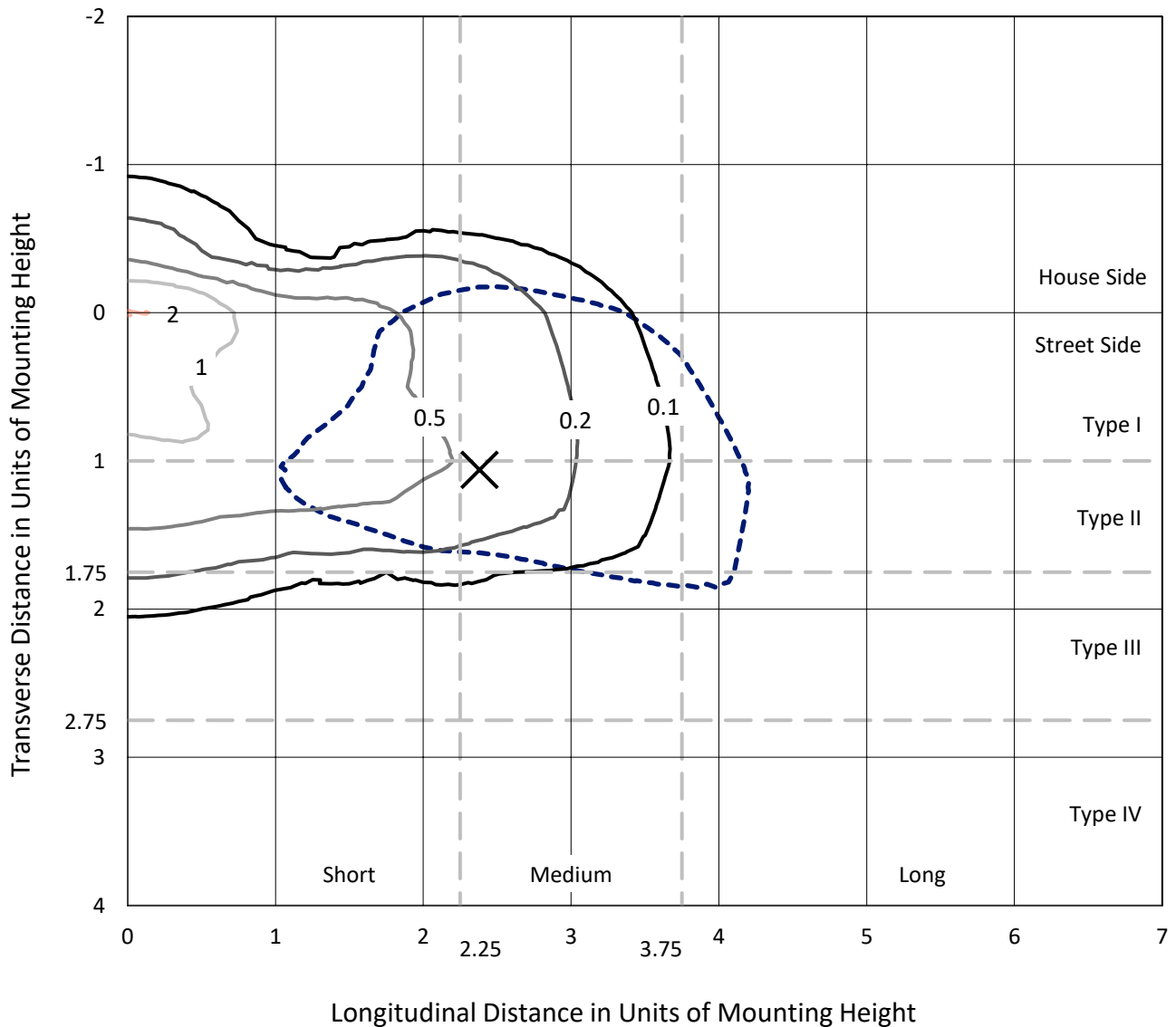
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646722
 CATALOG NUMBER: GALN-SA1C-835-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

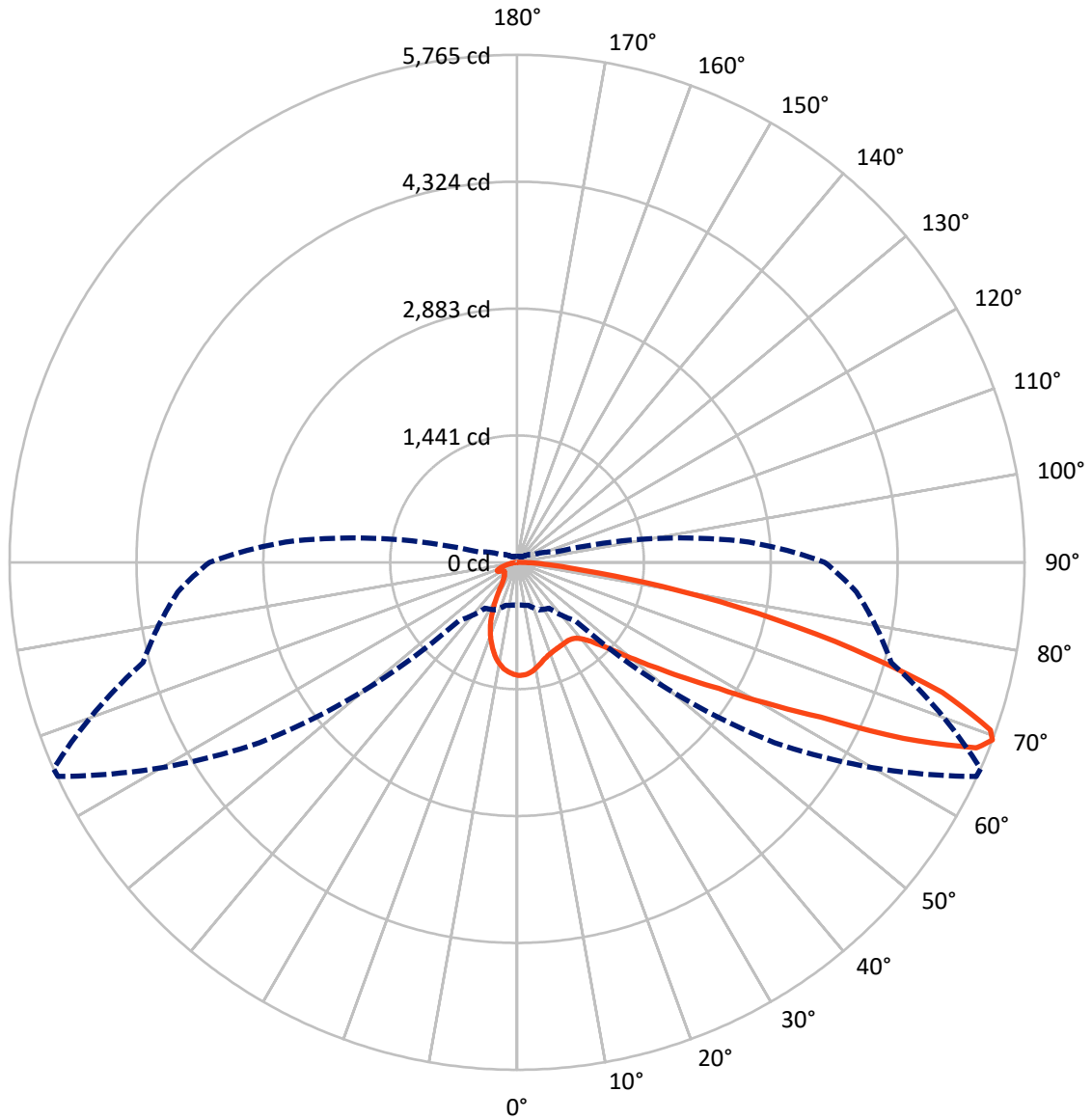
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P646722
CATALOG NUMBER: GALN-SA1C-835-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P646722
 CATALOG NUMBER: GALN-SA1C-835-U-SL2

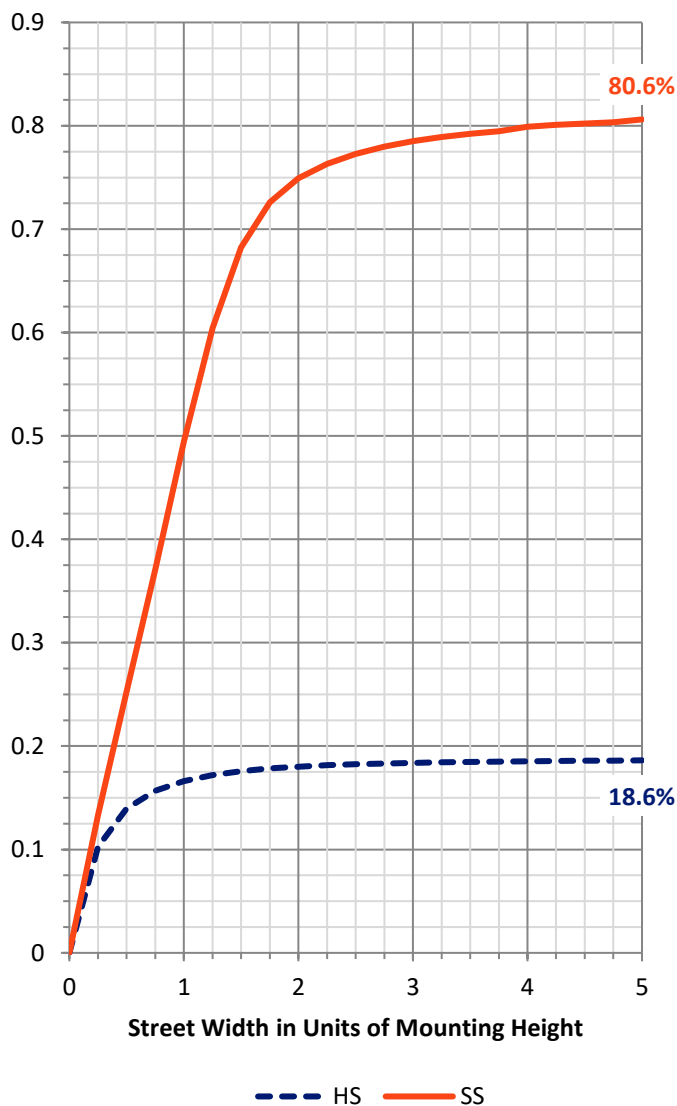
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1045.6 | 0.0 | 1045.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 4514.4 | 0.0 | 4514.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 5560.1 | 0.0 | 5560.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.5 | 2.0 |
| 10°-20° | 264.5 | 4.8 |
| 20°-30° | 360.0 | 6.5 |
| 30°-40° | 483.8 | 8.7 |
| 40°-50° | 722.4 | 13.0 |
| 50°-60° | 1149.1 | 20.7 |
| 60°-70° | 1413.3 | 25.4 |
| 70°-80° | 919.6 | 16.5 |
| 80°-90° | 135.8 | 2.4 |
| 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° | 5560.1 | 100.0 |
| 0°-180° | 5560.1 | 100.0 |

Coefficient of Utilization

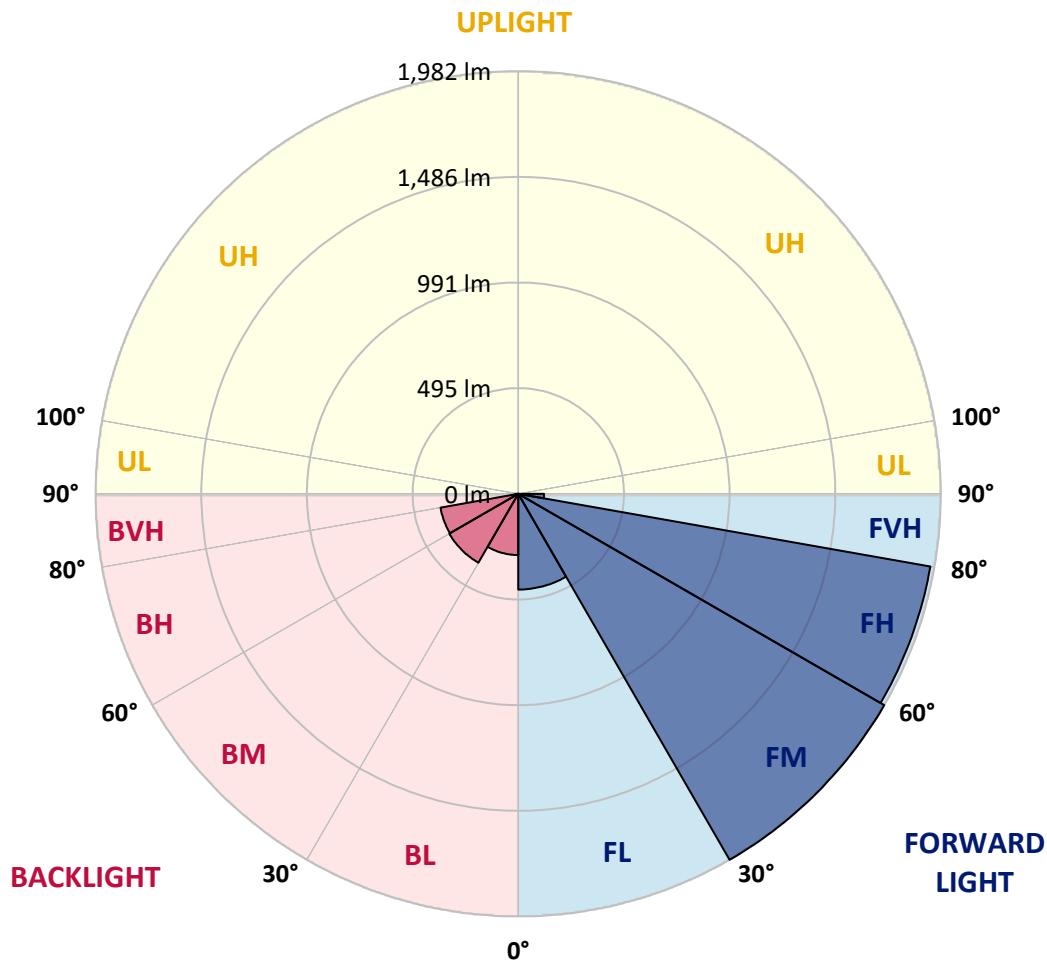


REPORT NUMBER: P646722
 CATALOG NUMBER: GALN-SA1C-835-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 449.0 | 8.1 | | | |
| FM (30°-60°) | 1982.0 | 35.6 | | | |
| FH (60°-80°) | 1962.7 | 35.3 | | | G2/5000 |
| FVH (80°-90°) | 120.7 | 2.2 | | | G2/225 |
| BL (0°-30°) | 287.0 | 5.2 | B1/500 | | |
| BM (30°-60°) | 373.3 | 6.7 | B1/1000 | | |
| BH (60°-80°) | 370.2 | 6.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.1 | 0.3 | | | G1/100 |
| 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 Medium





REPORT NUMBER: P646722
 CATALOG NUMBER: GALN-SA1C-835-U-SL2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5° | 1239.0 | 1244.0 | 1249.5 | 1255.6 | 1267.4 | 1273.8 | 1278.4 | 1283.7 | 1284.3 | 1287.1 | 1284.9 |
| 5° | 1147.6 | 1153.4 | 1161.7 | 1173.4 | 1191.0 | 1218.4 | 1246.7 | 1269.8 | 1272.6 | 1285.5 | 1289.2 |
| 7.5° | 1071.2 | 1074.6 | 1081.4 | 1100.2 | 1125.1 | 1155.6 | 1196.8 | 1243.6 | 1250.5 | 1281.2 | 1292.0 |
| 10° | 1009.1 | 1012.4 | 1020.4 | 1039.8 | 1064.4 | 1102.6 | 1147.9 | 1209.5 | 1215.0 | 1268.0 | 1292.6 |
| 12.5° | 962.5 | 965.6 | 974.2 | 993.3 | 1021.7 | 1057.4 | 1107.2 | 1172.5 | 1180.5 | 1250.5 | 1286.8 |
| 15° | 927.2 | 932.9 | 940.1 | 955.7 | 985.6 | 1020.1 | 1068.4 | 1138.6 | 1145.1 | 1232.0 | 1282.7 |
| 17.5° | 912.0 | 914.8 | 919.7 | 934.2 | 956.0 | 989.9 | 1038.6 | 1112.2 | 1119.8 | 1219.0 | 1281.8 |
| 20° | 912.7 | 915.4 | 916.3 | 924.3 | 940.1 | 969.3 | 1017.4 | 1091.2 | 1100.4 | 1207.6 | 1283.3 |
| 22.5° | 933.6 | 933.9 | 930.5 | 927.7 | 933.9 | 958.2 | 1002.2 | 1075.5 | 1086.3 | 1202.7 | 1284.6 |
| 25° | 965.9 | 971.5 | 966.5 | 953.6 | 942.2 | 953.9 | 996.4 | 1066.9 | 1077.1 | 1195.6 | 1283.0 |
| 27.5° | 1018.3 | 1019.2 | 1015.2 | 997.6 | 968.1 | 959.4 | 993.9 | 1060.4 | 1069.0 | 1190.4 | 1275.4 |
| 30° | 1088.4 | 1085.7 | 1082.0 | 1062.6 | 1016.1 | 980.7 | 999.2 | 1054.6 | 1063.5 | 1182.6 | 1266.1 |
| 32.5° | 1159.5 | 1168.2 | 1164.8 | 1142.0 | 1081.7 | 1022.0 | 1016.1 | 1054.0 | 1061.4 | 1176.8 | 1255.9 |
| 35° | 1235.0 | 1239.0 | 1255.1 | 1243.3 | 1181.5 | 1088.8 | 1047.8 | 1063.5 | 1069.3 | 1177.2 | 1248.9 |
| 37.5° | 1294.1 | 1304.9 | 1342.5 | 1352.6 | 1294.5 | 1177.2 | 1099.3 | 1090.6 | 1093.1 | 1192.2 | 1251.6 |
| 40° | 1365.6 | 1384.0 | 1432.4 | 1473.9 | 1435.8 | 1292.0 | 1186.7 | 1140.8 | 1143.9 | 1228.5 | 1269.8 |
| 42.5° | 1456.1 | 1469.1 | 1534.0 | 1590.4 | 1584.2 | 1443.8 | 1292.6 | 1223.0 | 1224.5 | 1300.9 | 1320.6 |
| 45° | 1562.0 | 1580.5 | 1653.5 | 1738.1 | 1752.6 | 1615.6 | 1445.7 | 1347.4 | 1346.4 | 1413.3 | 1415.4 |
| 47.5° | 1697.5 | 1708.9 | 1781.2 | 1873.6 | 1932.1 | 1831.4 | 1631.3 | 1526.0 | 1516.1 | 1577.1 | 1559.6 |
| 50° | 1822.2 | 1840.0 | 1894.9 | 1995.9 | 2141.5 | 2084.3 | 1875.4 | 1757.5 | 1734.4 | 1791.4 | 1761.8 |
| 52.5° | 1874.6 | 1893.3 | 1939.5 | 2064.8 | 2321.0 | 2411.2 | 2185.5 | 2033.8 | 1995.2 | 2038.9 | 2028.2 |
| 55° | 1783.7 | 1808.0 | 1851.2 | 2003.5 | 2399.8 | 2788.4 | 2603.7 | 2353.1 | 2325.0 | 2306.2 | 2309.3 |
| 57.5° | 1539.5 | 1562.6 | 1620.8 | 1788.9 | 2305.6 | 3062.2 | 3200.7 | 2763.4 | 2703.5 | 2616.9 | 2631.7 |
| 60° | 1171.9 | 1186.4 | 1216.5 | 1402.8 | 2026.3 | 3133.3 | 3878.7 | 3282.3 | 3244.1 | 2926.4 | 2936.8 |
| 62.5° | 832.3 | 848.6 | 869.5 | 962.5 | 1483.5 | 2932.8 | 4409.5 | 4006.8 | 3870.4 | 3246.9 | 3236.8 |
| 65° | 675.9 | 664.8 | 690.1 | 733.4 | 870.5 | 2273.0 | 4529.0 | 5012.5 | 4824.6 | 3669.1 | 3528.0 |
| 67.5° | 555.8 | 544.1 | 569.0 | 646.3 | 662.0 | 1319.4 | 4098.5 | 5665.2 | 5627.7 | 4128.1 | 3823.9 |
| 69° | 492.0 | 485.9 | 507.8 | 595.8 | 635.6 | 936.9 | 3570.5 | 5756.1 | 5765.0 | 4398.8 | 3869.5 |
| 70° | 443.4 | 445.8 | 467.1 | 570.3 | 623.5 | 772.5 | 3051.7 | 5630.7 | 5706.4 | 4534.0 | 3820.3 |
| 72.5° | 326.4 | 331.6 | 361.2 | 472.3 | 612.1 | 655.5 | 1816.0 | 4918.3 | 5052.2 | 4541.9 | 3494.8 |
| 75° | 228.2 | 225.7 | 251.9 | 355.6 | 578.2 | 649.7 | 1066.6 | 3803.6 | 3955.4 | 3925.8 | 2936.5 |
| 77.5° | 149.3 | 153.3 | 174.3 | 251.3 | 486.5 | 644.7 | 695.2 | 2698.5 | 2797.0 | 2625.6 | 1736.9 |
| 80° | 105.3 | 105.0 | 116.7 | 171.5 | 360.9 | 619.5 | 569.3 | 1700.9 | 1675.9 | 1031.8 | 515.1 |
| 82.5° | 60.4 | 64.7 | 78.2 | 120.7 | 241.4 | 545.3 | 523.7 | 813.5 | 742.7 | 294.0 | 174.0 |
| 85° | 33.6 | 35.1 | 46.5 | 73.0 | 141.0 | 410.8 | 457.3 | 370.1 | 349.1 | 122.9 | 74.9 |
| 87.5° | 10.8 | 11.7 | 19.4 | 37.0 | 64.0 | 193.9 | 258.9 | 170.9 | 157.6 | 44.3 | 30.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P646722
 CATALOG NUMBER: GALN-SA1C-835-U-SL2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 | 1284.0 |
| 2.5° | 1285.8 | 1289.5 | 1279.7 | 1270.1 | 1261.5 | 1249.5 | 1238.7 | 1229.8 | 1223.6 | 1222.7 | 1219.6 |
| 5° | 1290.1 | 1290.5 | 1271.7 | 1246.4 | 1221.8 | 1194.7 | 1166.7 | 1146.6 | 1127.8 | 1117.4 | 1112.2 |
| 7.5° | 1293.2 | 1290.5 | 1256.6 | 1215.6 | 1168.2 | 1118.9 | 1069.7 | 1030.3 | 999.8 | 987.8 | 992.4 |
| 10° | 1292.0 | 1283.3 | 1233.8 | 1168.2 | 1099.3 | 1025.7 | 954.8 | 899.4 | 848.6 | 822.4 | 823.0 |
| 12.5° | 1285.2 | 1271.0 | 1199.9 | 1114.9 | 1013.7 | 915.1 | 806.7 | 731.9 | 673.1 | 638.3 | 627.5 |
| 15° | 1279.3 | 1254.8 | 1160.2 | 1042.6 | 916.7 | 776.0 | 643.9 | 551.5 | 502.2 | 474.8 | 474.5 |
| 17.5° | 1273.2 | 1239.0 | 1116.8 | 965.9 | 805.2 | 624.1 | 485.5 | 415.1 | 392.0 | 394.7 | 390.1 |
| 20° | 1266.7 | 1220.5 | 1071.5 | 880.6 | 669.4 | 465.6 | 363.6 | 335.0 | 341.5 | 354.1 | 356.0 |
| 22.5° | 1259.4 | 1200.8 | 1022.8 | 786.7 | 526.5 | 350.4 | 295.0 | 290.6 | 307.3 | 327.0 | 329.8 |
| 25° | 1247.9 | 1176.2 | 961.6 | 688.5 | 406.1 | 282.3 | 258.3 | 261.4 | 277.7 | 294.3 | 296.2 |
| 27.5° | 1232.0 | 1145.8 | 899.7 | 566.0 | 305.1 | 242.3 | 236.2 | 240.1 | 248.2 | 258.3 | 260.8 |
| 30° | 1210.4 | 1111.2 | 828.6 | 460.0 | 244.5 | 222.3 | 219.9 | 222.0 | 226.6 | 230.9 | 232.2 |
| 32.5° | 1188.8 | 1078.0 | 756.8 | 352.3 | 218.0 | 209.1 | 206.6 | 206.6 | 206.6 | 207.3 | 207.5 |
| 35° | 1168.8 | 1046.6 | 679.9 | 274.4 | 204.1 | 198.6 | 195.2 | 191.5 | 190.9 | 188.8 | 188.8 |
| 37.5° | 1157.7 | 1018.0 | 598.0 | 229.7 | 193.9 | 190.0 | 185.3 | 179.2 | 175.8 | 176.1 | 175.5 |
| 40° | 1159.9 | 999.2 | 523.4 | 204.4 | 185.6 | 181.3 | 174.3 | 167.2 | 165.1 | 165.1 | 164.4 |
| 42.5° | 1184.2 | 993.0 | 452.0 | 191.2 | 177.7 | 172.7 | 163.8 | 157.3 | 156.1 | 155.8 | 156.4 |
| 45° | 1240.3 | 1008.1 | 388.0 | 182.6 | 170.9 | 163.5 | 154.6 | 148.7 | 147.5 | 147.5 | 147.2 |
| 47.5° | 1349.6 | 1057.0 | 342.1 | 177.0 | 166.0 | 156.4 | 147.2 | 141.3 | 139.1 | 138.6 | 138.6 |
| 50° | 1519.5 | 1163.3 | 307.9 | 172.1 | 159.8 | 149.9 | 140.4 | 133.7 | 130.2 | 129.9 | 129.7 |
| 52.5° | 1755.7 | 1328.9 | 294.6 | 168.4 | 153.0 | 143.2 | 132.7 | 126.2 | 121.9 | 121.0 | 120.4 |
| 55° | 2031.9 | 1560.2 | 312.8 | 165.7 | 146.0 | 135.5 | 124.7 | 117.9 | 113.9 | 112.0 | 111.7 |
| 57.5° | 2351.8 | 1837.9 | 381.8 | 161.9 | 139.5 | 127.2 | 116.7 | 109.9 | 105.6 | 103.4 | 102.8 |
| 60° | 2639.1 | 2123.3 | 502.2 | 159.8 | 134.0 | 118.2 | 107.4 | 101.3 | 97.3 | 95.1 | 94.8 |
| 62.5° | 2954.7 | 2395.5 | 646.0 | 165.7 | 131.5 | 109.6 | 98.8 | 93.3 | 89.9 | 87.8 | 87.8 |
| 65° | 3291.8 | 2668.0 | 741.1 | 185.3 | 135.1 | 102.8 | 89.6 | 85.0 | 81.9 | 80.3 | 80.0 |
| 67.5° | 3519.1 | 2762.3 | 610.6 | 205.7 | 144.4 | 95.4 | 80.6 | 77.0 | 75.2 | 73.6 | 73.6 |
| 69° | 3494.5 | 2643.1 | 450.5 | 210.9 | 147.2 | 91.8 | 75.7 | 73.0 | 70.5 | 69.9 | 69.3 |
| 70° | 3416.5 | 2507.3 | 377.5 | 207.5 | 145.0 | 88.4 | 72.7 | 69.3 | 67.1 | 66.5 | 66.2 |
| 72.5° | 3043.1 | 2174.5 | 281.1 | 180.4 | 123.5 | 76.7 | 64.4 | 61.3 | 59.4 | 58.5 | 58.5 |
| 75° | 2528.2 | 1777.3 | 219.6 | 143.5 | 96.7 | 64.7 | 55.1 | 52.6 | 51.1 | 50.5 | 50.2 |
| 77.5° | 1417.0 | 992.4 | 157.6 | 112.4 | 73.3 | 52.4 | 46.2 | 44.0 | 42.5 | 41.9 | 41.9 |
| 80° | 394.7 | 283.6 | 92.7 | 74.2 | 49.9 | 39.7 | 36.6 | 35.1 | 33.0 | 31.4 | 32.3 |
| 82.5° | 148.7 | 122.9 | 52.9 | 44.6 | 31.7 | 26.5 | 25.5 | 24.4 | 23.4 | 21.2 | 21.2 |
| 85° | 72.3 | 59.7 | 33.9 | 23.7 | 17.5 | 13.9 | 13.2 | 12.6 | 12.0 | 10.5 | 10.8 |
| 87.5° | 25.0 | 26.5 | 14.8 | 8.6 | 5.2 | 3.4 | 2.7 | 1.6 | 1.6 | 1.6 | 1.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)