

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: P450402

Luminaire Tested: **GALN-SA1B-722-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-722-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

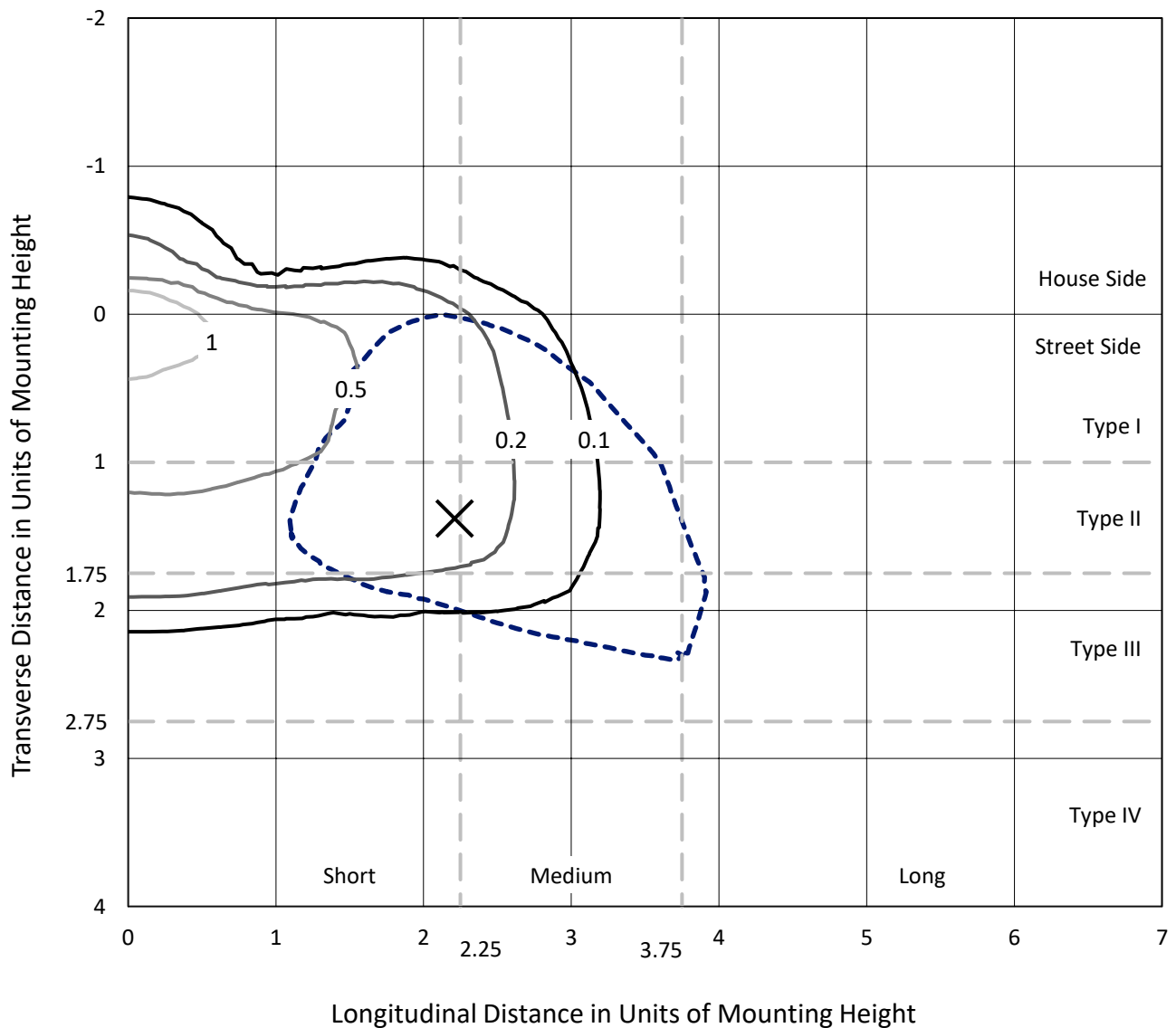
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P450402
 CATALOG NUMBER: GALN-SA1B-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

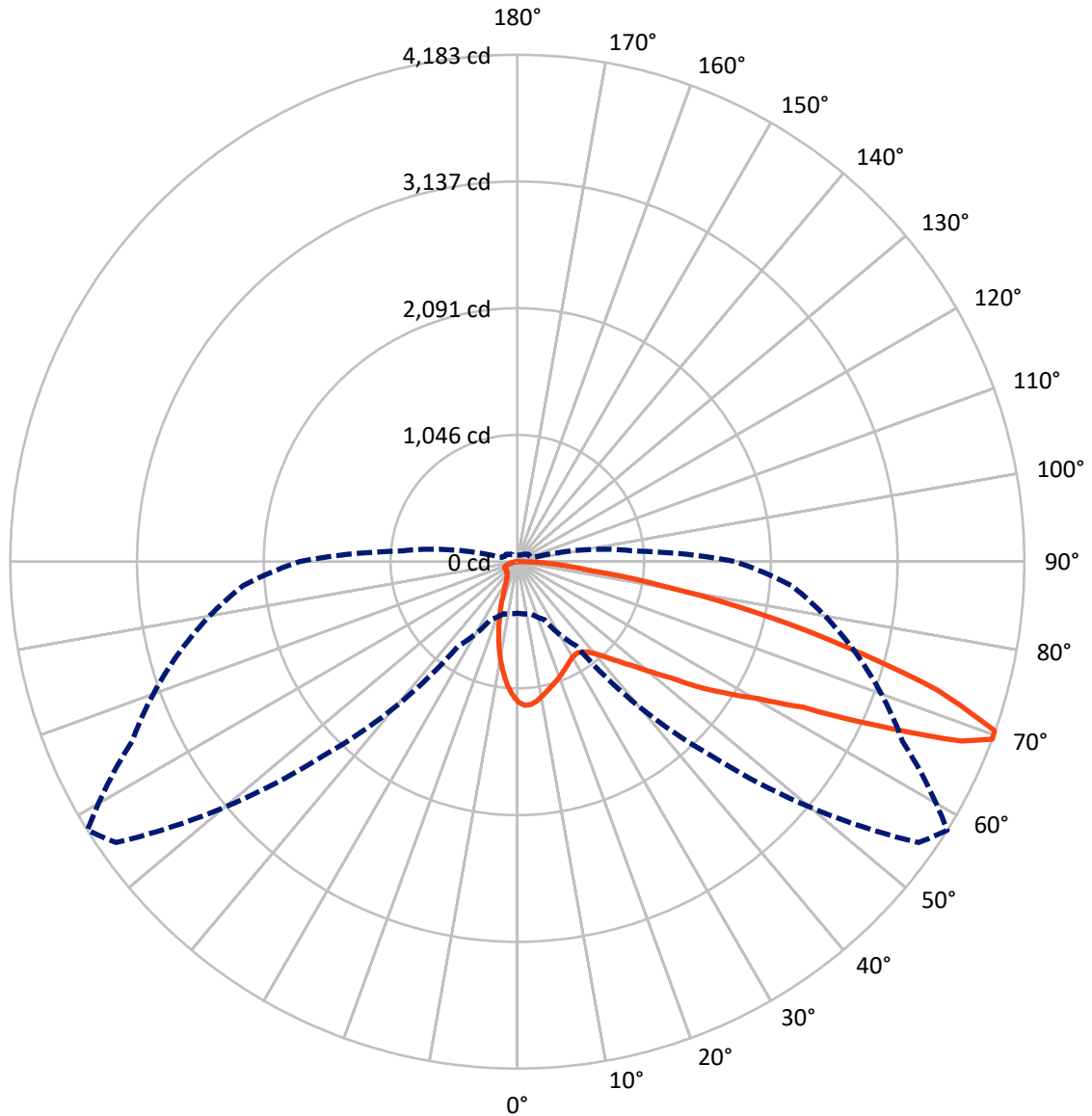
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P450402
CATALOG NUMBER: GALN-SA1B-722-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



REPORT NUMBER: P450402

CATALOG NUMBER: GALN-SA1B-722-U-SL3

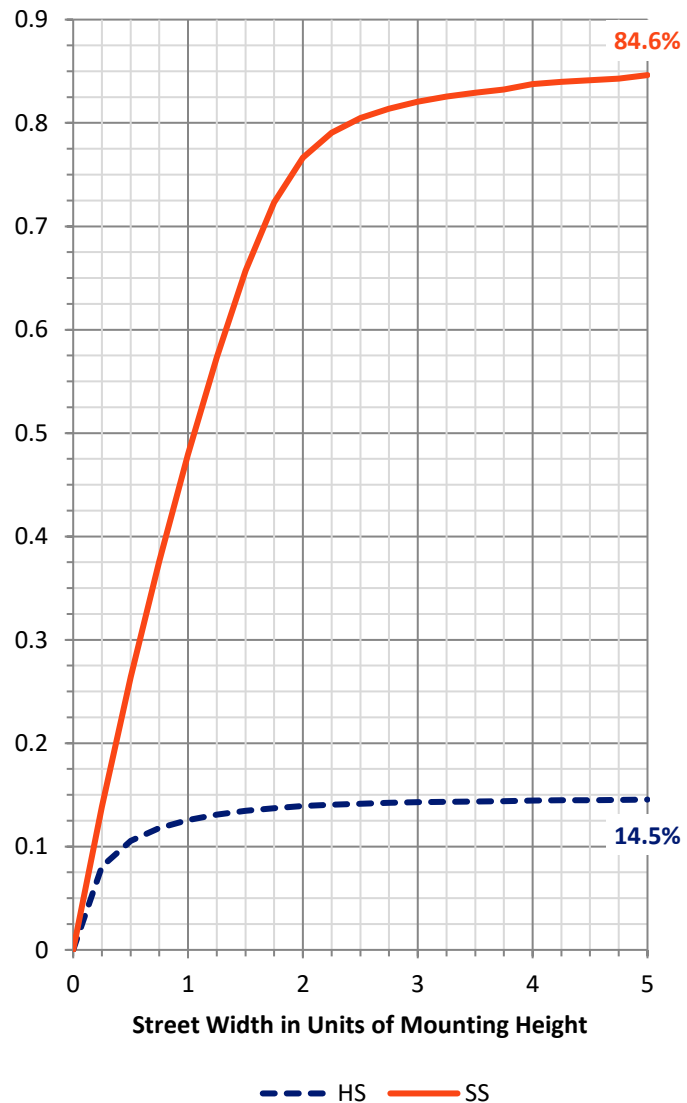
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 614.8 | 0.0 | 614.8 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 3580.2 | 0.0 | 3580.2 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 4195.0 | 0.0 | 4195.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.4 | 2.3 |
| 10°-20° | 216.2 | 5.2 |
| 20°-30° | 279.3 | 6.7 |
| 30°-40° | 362.8 | 8.6 |
| 40°-50° | 527.4 | 12.6 |
| 50°-60° | 841.6 | 20.1 |
| 60°-70° | 1124.2 | 26.8 |
| 70°-80° | 648.1 | 15.4 |
| 80°-90° | 97.1 | 2.3 |
| 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° | 4195.0 | 100.0 |
| 0°-180° | 4195.0 | 100.0 |



REPORT NUMBER: P450402

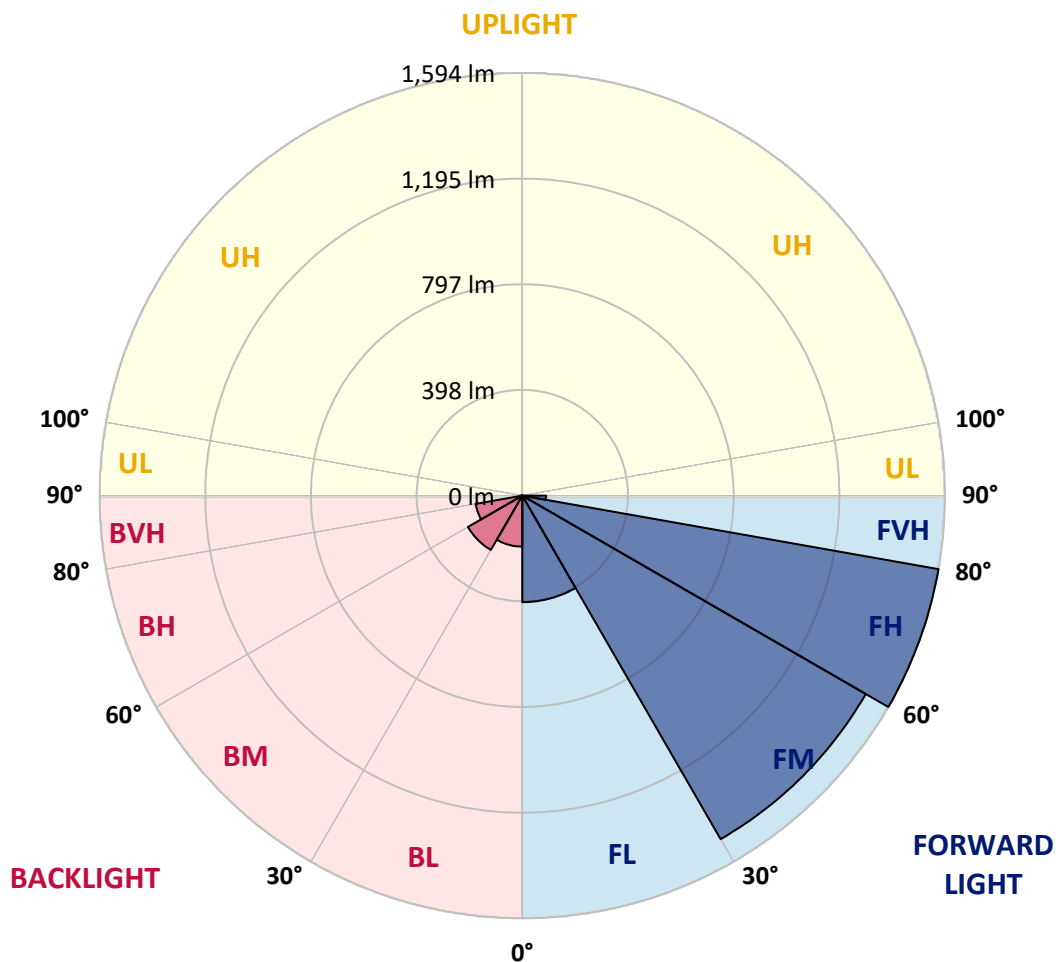
CATALOG NUMBER: GALN-SA1B-722-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 401.8 | 9.6 | | | |
| FM (30°-60°) | 1495.3 | 35.6 | | | |
| FH (60°-80°) | 1593.5 | 38.0 | | | G1/1800 |
| FVH (80°-90°) | 89.6 | 2.1 | | | G1/100 |
| BL (0°-30°) | 192.2 | 4.6 | B1/500 | | |
| BM (30°-60°) | 236.4 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 178.8 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 7.4 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





REPORT NUMBER: P450402
 CATALOG NUMBER: GALN-SA1B-722-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 2.5° | 1202.3 | 1205.6 | 1204.6 | 1203.5 | 1201.6 | 1196.5 | 1188.0 | 1186.6 | 1181.2 | 1169.8 | 1155.5 |
| 5° | 1183.8 | 1186.6 | 1186.9 | 1188.5 | 1190.8 | 1189.9 | 1183.8 | 1183.1 | 1175.2 | 1159.7 | 1135.9 |
| 7.5° | 1120.4 | 1124.2 | 1132.3 | 1141.5 | 1149.7 | 1157.4 | 1159.3 | 1160.4 | 1155.5 | 1137.7 | 1105.9 |
| 10° | 1049.1 | 1052.8 | 1056.5 | 1070.1 | 1090.2 | 1109.4 | 1125.3 | 1127.4 | 1128.6 | 1112.2 | 1073.4 |
| 12.5° | 970.0 | 977.7 | 985.7 | 1005.8 | 1032.7 | 1062.9 | 1090.9 | 1095.4 | 1103.3 | 1090.9 | 1045.3 |
| 15° | 902.8 | 910.8 | 922.3 | 940.3 | 972.8 | 1016.3 | 1055.8 | 1063.1 | 1078.8 | 1072.5 | 1019.1 |
| 17.5° | 856.3 | 859.1 | 867.0 | 887.6 | 922.7 | 968.6 | 1021.5 | 1036.0 | 1061.0 | 1059.4 | 996.7 |
| 20° | 819.5 | 823.1 | 828.0 | 840.6 | 877.1 | 925.5 | 989.4 | 1008.1 | 1042.0 | 1047.7 | 974.4 |
| 22.5° | 804.1 | 806.7 | 806.0 | 812.8 | 837.6 | 886.2 | 956.9 | 979.1 | 1025.2 | 1039.7 | 953.8 |
| 25° | 805.0 | 807.4 | 803.9 | 802.2 | 817.0 | 851.6 | 923.0 | 951.3 | 1011.6 | 1034.3 | 935.1 |
| 27.5° | 820.7 | 822.4 | 815.8 | 809.3 | 810.4 | 830.1 | 894.9 | 926.2 | 1000.2 | 1036.7 | 919.4 |
| 30° | 841.8 | 844.8 | 840.6 | 832.6 | 824.0 | 824.9 | 876.9 | 907.7 | 994.8 | 1044.8 | 912.0 |
| 32.5° | 868.9 | 871.7 | 869.8 | 863.5 | 852.3 | 839.9 | 872.4 | 901.0 | 995.2 | 1061.5 | 910.3 |
| 35° | 897.5 | 903.1 | 906.1 | 905.6 | 896.5 | 875.0 | 890.0 | 913.6 | 1006.5 | 1089.3 | 919.9 |
| 37.5° | 929.7 | 934.4 | 947.5 | 955.9 | 947.5 | 922.5 | 929.5 | 945.9 | 1031.3 | 1129.5 | 941.0 |
| 40° | 961.1 | 968.1 | 987.3 | 1013.5 | 1010.2 | 988.2 | 989.9 | 1000.6 | 1075.0 | 1189.4 | 982.1 |
| 42.5° | 993.8 | 1002.3 | 1035.7 | 1074.6 | 1082.3 | 1065.2 | 1069.6 | 1079.2 | 1137.3 | 1272.5 | 1052.8 |
| 45° | 1036.0 | 1046.0 | 1087.2 | 1135.6 | 1166.0 | 1155.5 | 1168.1 | 1172.8 | 1220.5 | 1380.6 | 1145.9 |
| 47.5° | 1090.2 | 1101.9 | 1152.7 | 1213.1 | 1256.1 | 1265.7 | 1287.7 | 1284.9 | 1323.7 | 1508.5 | 1266.6 |
| 50° | 1181.7 | 1188.3 | 1236.2 | 1297.8 | 1356.9 | 1400.2 | 1424.1 | 1428.5 | 1451.7 | 1633.0 | 1401.6 |
| 52.5° | 1290.5 | 1296.4 | 1331.0 | 1384.8 | 1459.0 | 1550.7 | 1609.6 | 1595.1 | 1600.7 | 1784.6 | 1559.6 |
| 55° | 1412.9 | 1422.7 | 1444.7 | 1480.5 | 1576.6 | 1711.6 | 1830.0 | 1833.5 | 1771.3 | 1929.7 | 1710.9 |
| 57.5° | 1507.6 | 1524.2 | 1561.9 | 1612.9 | 1734.8 | 1890.6 | 2049.7 | 2052.0 | 1972.5 | 2084.5 | 1878.0 |
| 60° | 1459.9 | 1479.5 | 1565.6 | 1689.9 | 1942.3 | 2202.9 | 2312.2 | 2298.9 | 2168.3 | 2261.0 | 2081.7 |
| 62.5° | 1254.0 | 1257.5 | 1382.7 | 1576.9 | 2006.2 | 2620.8 | 2702.9 | 2646.5 | 2429.6 | 2484.6 | 2288.8 |
| 65° | 811.6 | 834.5 | 933.7 | 1205.8 | 1796.3 | 2852.6 | 3387.5 | 3257.1 | 2796.0 | 2738.5 | 2462.2 |
| 67.5° | 512.4 | 506.5 | 547.7 | 688.5 | 1235.5 | 2648.4 | 3971.6 | 3951.1 | 3275.2 | 2898.7 | 2420.7 |
| 69° | 424.9 | 431.4 | 445.5 | 527.8 | 850.2 | 2261.2 | 4040.7 | 4182.9 | 3507.5 | 2886.1 | 2270.3 |
| 70° | 385.3 | 388.4 | 403.1 | 467.9 | 656.0 | 1893.9 | 3927.4 | 4176.6 | 3598.7 | 2833.2 | 2161.3 |
| 72.5° | 305.8 | 305.5 | 330.8 | 389.3 | 490.4 | 1081.1 | 3224.9 | 3626.1 | 3496.7 | 2587.1 | 1785.8 |
| 75° | 232.3 | 236.1 | 263.9 | 329.4 | 451.8 | 590.7 | 2250.4 | 2792.5 | 2792.7 | 2043.4 | 1114.3 |
| 77.5° | 167.5 | 169.9 | 202.4 | 276.5 | 425.6 | 478.9 | 1499.0 | 2002.9 | 1882.9 | 936.3 | 350.2 |
| 80° | 109.7 | 111.1 | 135.9 | 219.0 | 383.7 | 451.8 | 888.8 | 1225.9 | 888.1 | 248.5 | 115.8 |
| 82.5° | 60.1 | 67.1 | 83.1 | 141.8 | 307.9 | 417.4 | 540.2 | 620.5 | 333.2 | 110.7 | 60.4 |
| 85° | 30.2 | 32.1 | 46.8 | 82.8 | 201.2 | 345.3 | 376.2 | 355.8 | 172.0 | 55.0 | 31.4 |
| 87.5° | 8.9 | 11.2 | 19.4 | 32.1 | 81.7 | 179.9 | 209.4 | 187.9 | 66.2 | 19.9 | 6.6 |
| 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: P450402
 CATALOG NUMBER: GALN-SA1B-722-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 | 1159.3 |
| 2.5° | 1149.7 | 1145.4 | 1126.7 | 1109.9 | 1094.4 | 1078.1 | 1064.3 | 1052.1 | 1053.3 | 1053.5 | 1041.1 |
| 5° | 1123.5 | 1113.9 | 1078.3 | 1045.1 | 1017.0 | 981.4 | 951.0 | 931.4 | 921.6 | 908.5 | 913.1 |
| 7.5° | 1087.9 | 1069.4 | 1020.0 | 964.8 | 913.1 | 867.0 | 817.0 | 782.6 | 760.6 | 739.3 | 742.1 |
| 10° | 1051.2 | 1021.5 | 949.6 | 876.6 | 809.7 | 736.0 | 672.2 | 617.4 | 576.7 | 561.5 | 551.4 |
| 12.5° | 1013.5 | 974.4 | 883.2 | 786.1 | 693.7 | 605.5 | 514.9 | 456.2 | 411.3 | 387.4 | 390.5 |
| 15° | 979.1 | 931.6 | 813.9 | 695.6 | 575.5 | 470.5 | 380.2 | 324.3 | 292.9 | 286.4 | 290.1 |
| 17.5° | 947.3 | 885.1 | 749.1 | 607.6 | 467.4 | 352.8 | 285.7 | 254.1 | 241.4 | 237.9 | 237.7 |
| 20° | 914.5 | 845.5 | 676.4 | 513.5 | 364.3 | 273.5 | 234.4 | 219.7 | 217.3 | 218.7 | 219.0 |
| 22.5° | 881.3 | 796.6 | 601.5 | 420.2 | 290.1 | 223.7 | 204.9 | 201.0 | 202.8 | 206.1 | 206.6 |
| 25° | 850.7 | 753.6 | 529.4 | 338.3 | 231.6 | 196.5 | 187.4 | 187.4 | 191.6 | 196.5 | 196.8 |
| 27.5° | 825.4 | 711.9 | 457.6 | 268.6 | 193.9 | 176.9 | 173.8 | 175.5 | 181.3 | 185.1 | 185.3 |
| 30° | 804.6 | 673.1 | 389.8 | 215.2 | 170.6 | 161.2 | 160.5 | 163.3 | 167.5 | 171.0 | 171.3 |
| 32.5° | 788.9 | 638.9 | 326.4 | 180.8 | 154.4 | 149.3 | 149.0 | 151.1 | 153.5 | 154.4 | 155.3 |
| 35° | 782.8 | 610.6 | 268.3 | 159.1 | 143.6 | 140.4 | 140.4 | 140.1 | 141.1 | 141.5 | 142.0 |
| 37.5° | 787.7 | 588.9 | 223.4 | 145.1 | 135.7 | 133.4 | 132.0 | 130.5 | 130.1 | 130.1 | 130.3 |
| 40° | 808.6 | 577.4 | 190.0 | 135.9 | 130.1 | 126.6 | 124.0 | 122.4 | 120.7 | 121.2 | 121.7 |
| 42.5° | 852.8 | 579.5 | 167.3 | 129.8 | 125.2 | 120.3 | 116.5 | 114.6 | 113.5 | 114.9 | 114.6 |
| 45° | 923.2 | 600.6 | 152.8 | 125.6 | 120.3 | 113.9 | 110.4 | 108.6 | 108.6 | 110.7 | 111.4 |
| 47.5° | 1021.7 | 640.8 | 145.1 | 122.4 | 116.5 | 109.0 | 105.5 | 104.1 | 104.6 | 108.1 | 108.3 |
| 50° | 1141.9 | 710.8 | 143.6 | 120.7 | 114.6 | 105.5 | 101.5 | 100.1 | 101.3 | 105.0 | 105.5 |
| 52.5° | 1274.6 | 800.8 | 150.4 | 121.0 | 113.0 | 103.4 | 98.3 | 96.2 | 97.3 | 100.4 | 101.3 |
| 55° | 1431.8 | 913.6 | 168.0 | 121.9 | 110.7 | 102.2 | 95.9 | 91.2 | 92.6 | 94.8 | 95.0 |
| 57.5° | 1592.3 | 1055.8 | 198.9 | 122.1 | 108.8 | 100.1 | 91.9 | 85.9 | 85.9 | 87.3 | 88.0 |
| 60° | 1788.4 | 1210.7 | 239.6 | 122.4 | 109.0 | 97.1 | 86.6 | 79.8 | 78.8 | 79.5 | 79.8 |
| 62.5° | 1983.0 | 1340.3 | 246.4 | 121.7 | 111.4 | 94.1 | 80.7 | 73.7 | 72.1 | 71.8 | 71.4 |
| 65° | 2068.9 | 1316.2 | 201.9 | 118.4 | 113.9 | 92.2 | 76.0 | 67.8 | 65.0 | 64.1 | 64.1 |
| 67.5° | 1929.0 | 1113.4 | 151.8 | 113.9 | 112.3 | 90.3 | 71.6 | 62.9 | 59.7 | 57.8 | 57.8 |
| 69° | 1797.5 | 990.3 | 136.4 | 110.9 | 108.1 | 87.3 | 68.8 | 60.4 | 56.4 | 54.3 | 53.6 |
| 70° | 1695.9 | 905.6 | 129.8 | 108.3 | 104.1 | 83.8 | 66.7 | 58.5 | 54.0 | 51.7 | 51.2 |
| 72.5° | 1353.4 | 710.5 | 113.7 | 98.5 | 88.7 | 70.4 | 59.2 | 52.6 | 48.4 | 45.9 | 45.2 |
| 75° | 780.0 | 385.1 | 94.3 | 85.6 | 71.4 | 54.7 | 50.1 | 45.9 | 42.6 | 40.2 | 39.5 |
| 77.5° | 240.0 | 148.8 | 68.3 | 67.6 | 52.4 | 42.3 | 40.0 | 38.4 | 36.0 | 33.5 | 33.0 |
| 80° | 101.1 | 75.8 | 46.3 | 45.6 | 34.9 | 29.5 | 28.8 | 28.5 | 27.6 | 25.5 | 24.8 |
| 82.5° | 55.4 | 42.8 | 32.3 | 28.1 | 21.1 | 17.1 | 17.8 | 18.0 | 17.3 | 15.2 | 13.8 |
| 85° | 27.1 | 23.4 | 15.7 | 12.6 | 9.6 | 6.1 | 5.8 | 7.0 | 6.6 | 4.7 | 5.1 |
| 87.5° | 5.4 | 6.6 | 4.2 | 1.9 | 0.9 | 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 | 0.0 |

(END OF REPORT)