

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: P527099

Luminaire Tested: **GALN-SA2A-750-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527099
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-750-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5492 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

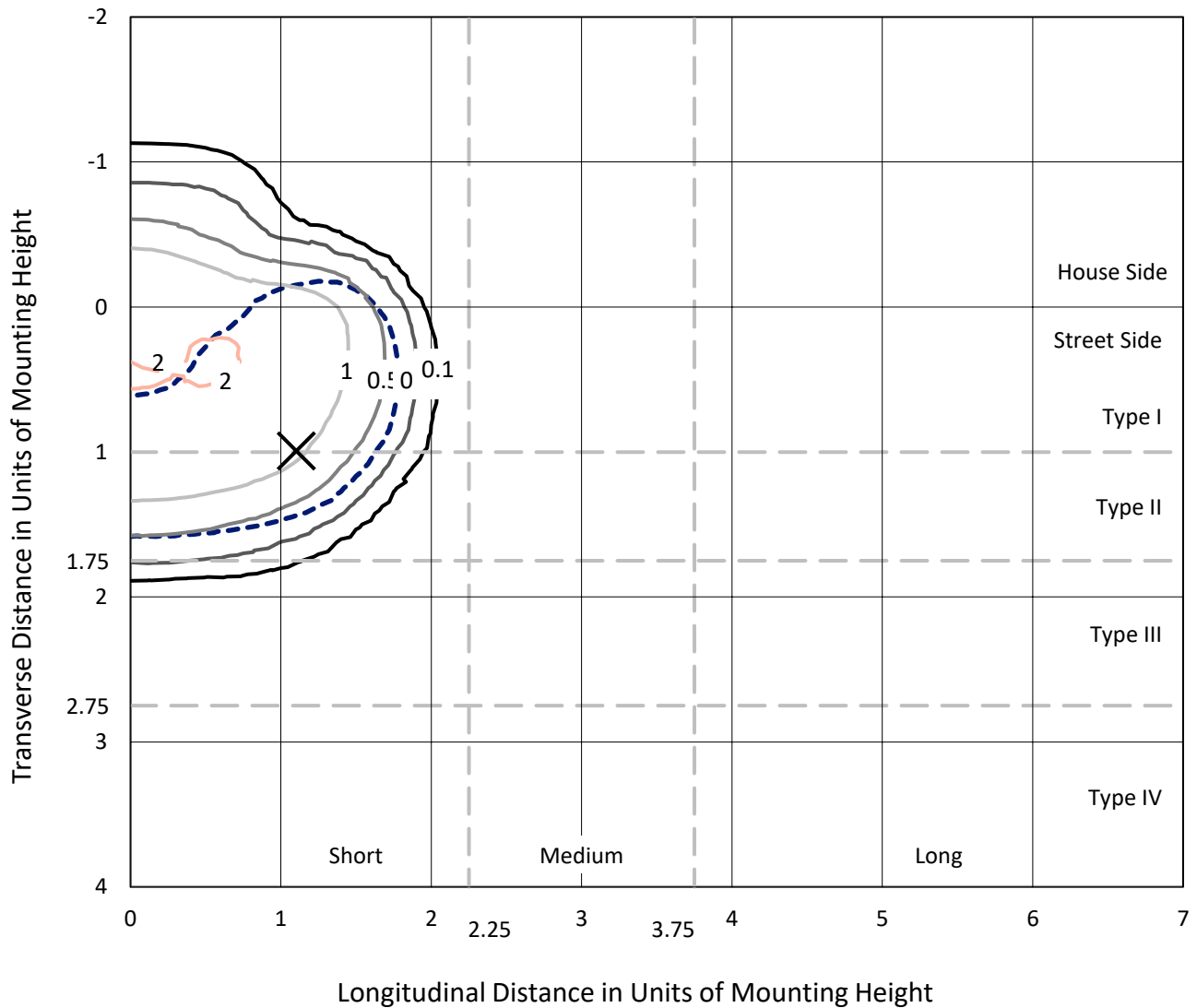
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527099
 CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

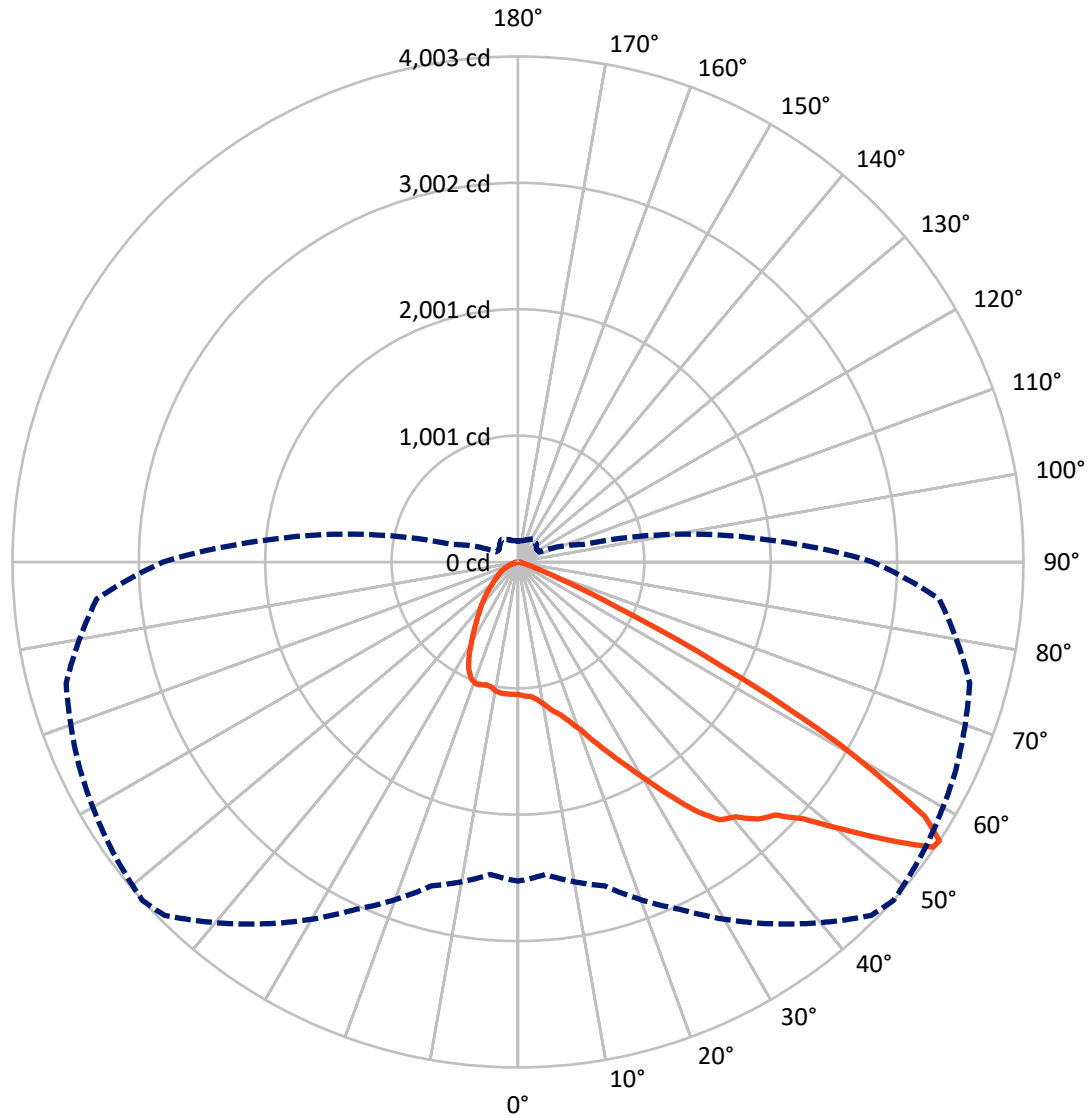
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

REPORT NUMBER: P527099
CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P527099
 CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

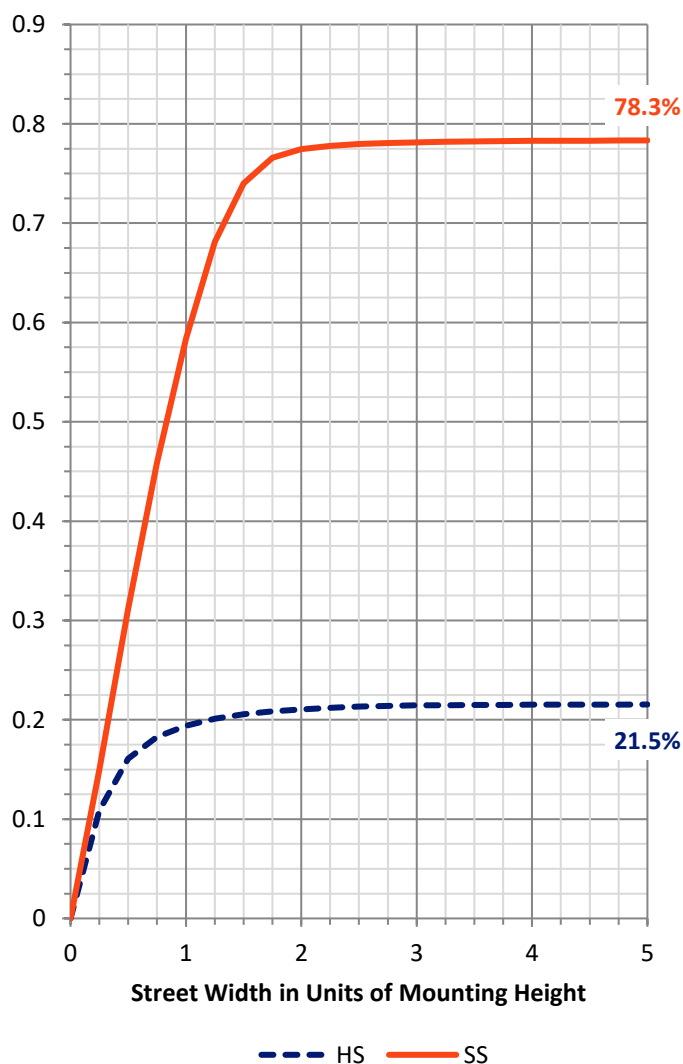
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1194.4 | 0.0 | 1194.4 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 4297.6 | 0.0 | 4297.6 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 5492.0 | 0.0 | 5492.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.2 | 1.9 |
| 10°-20° | 326.6 | 5.9 |
| 20°-30° | 592.3 | 10.8 |
| 30°-40° | 930.4 | 16.9 |
| 40°-50° | 1357.3 | 24.7 |
| 50°-60° | 1635.2 | 29.8 |
| 60°-70° | 478.8 | 8.7 |
| 70°-80° | 60.7 | 1.1 |
| 80°-90° | 8.5 | 0.2 |
| 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° | 5492.0 | 100.0 |
| 0°-180° | 5492.0 | 100.0 |

Coefficient of Utilization

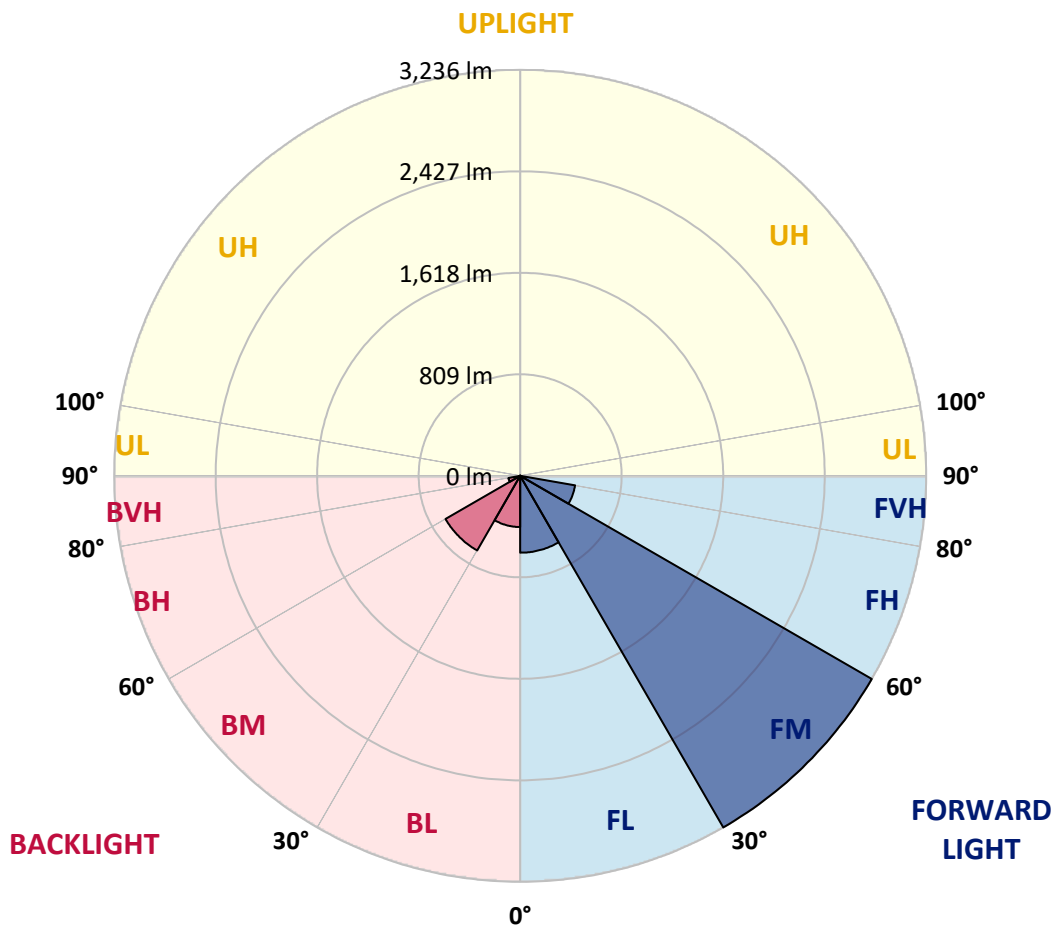


REPORT NUMBER: P527099
 CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 612.8 | 11.2 | | | |
| FM (30°-60°) | 3235.9 | 58.9 | | | |
| FH (60°-80°) | 444.6 | 8.1 | | | G0/660 |
| FVH (80°-90°) | 4.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 408.3 | 7.4 | B1/500 | | |
| BM (30°-60°) | 687.0 | 12.5 | B1/1000 | | |
| BH (60°-80°) | 94.9 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





REPORT NUMBER: P527099

CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 |
| 2.5° | 1068.0 | 1063.0 | 1063.0 | 1055.0 | 1064.0 | 1060.0 | 1063.0 | 1053.0 | 1063.0 | 1048.0 | 1060.0 |
| 5° | 1073.0 | 1074.0 | 1070.0 | 1075.0 | 1075.0 | 1081.0 | 1071.0 | 1080.0 | 1085.0 | 1074.0 | 1069.0 |
| 7.5° | 1099.0 | 1101.0 | 1100.0 | 1096.0 | 1104.0 | 1103.0 | 1102.0 | 1095.0 | 1097.0 | 1093.0 | 1087.0 |
| 10° | 1150.0 | 1149.0 | 1154.0 | 1144.0 | 1138.0 | 1145.0 | 1147.0 | 1136.0 | 1128.0 | 1125.0 | 1106.0 |
| 12.5° | 1224.0 | 1212.0 | 1205.0 | 1195.0 | 1198.0 | 1188.0 | 1206.0 | 1187.0 | 1183.0 | 1165.0 | 1146.0 |
| 15° | 1284.0 | 1282.0 | 1283.0 | 1267.0 | 1249.0 | 1253.0 | 1253.0 | 1243.0 | 1237.0 | 1215.0 | 1188.0 |
| 17.5° | 1407.0 | 1365.0 | 1374.0 | 1354.0 | 1339.0 | 1338.0 | 1329.0 | 1331.0 | 1315.0 | 1269.0 | 1228.0 |
| 20° | 1503.0 | 1485.0 | 1471.0 | 1437.0 | 1414.0 | 1421.0 | 1417.0 | 1407.0 | 1402.0 | 1342.0 | 1284.0 |
| 22.5° | 1589.0 | 1595.0 | 1572.0 | 1563.0 | 1531.0 | 1534.0 | 1542.0 | 1533.0 | 1495.0 | 1433.0 | 1347.0 |
| 25° | 1710.0 | 1703.0 | 1672.0 | 1661.0 | 1631.0 | 1642.0 | 1673.0 | 1666.0 | 1642.0 | 1530.0 | 1396.0 |
| 27.5° | 1853.0 | 1829.0 | 1835.0 | 1785.0 | 1756.0 | 1787.0 | 1824.0 | 1859.0 | 1791.0 | 1644.0 | 1454.0 |
| 30° | 1954.0 | 1929.0 | 1927.0 | 1925.0 | 1918.0 | 1954.0 | 1997.0 | 2029.0 | 1974.0 | 1758.0 | 1550.0 |
| 32.5° | 2004.0 | 2010.0 | 2027.0 | 2021.0 | 2081.9 | 2155.9 | 2200.9 | 2246.9 | 2177.9 | 1944.0 | 1677.0 |
| 35° | 2136.9 | 2098.9 | 2136.9 | 2140.9 | 2203.9 | 2360.9 | 2417.9 | 2527.9 | 2510.9 | 2206.9 | 1832.0 |
| 37.5° | 2214.9 | 2211.9 | 2216.9 | 2254.9 | 2315.9 | 2509.9 | 2590.9 | 2675.9 | 2643.9 | 2364.9 | 2025.0 |
| 40° | 2343.9 | 2351.9 | 2350.9 | 2379.9 | 2446.9 | 2621.9 | 2654.9 | 2723.9 | 2726.9 | 2583.9 | 2308.9 |
| 42.5° | 2550.9 | 2518.9 | 2497.9 | 2527.9 | 2621.9 | 2718.9 | 2784.9 | 2770.9 | 2869.9 | 2849.9 | 2673.9 |
| 45° | 2736.9 | 2755.9 | 2724.9 | 2774.9 | 2808.9 | 2860.9 | 2858.9 | 2888.9 | 3014.9 | 3109.9 | 2948.9 |
| 47.5° | 2910.9 | 2922.9 | 2937.9 | 2971.9 | 3045.9 | 3053.9 | 3036.9 | 3023.9 | 3197.9 | 3295.9 | 3161.9 |
| 50° | 3014.9 | 3025.9 | 3095.9 | 3156.9 | 3294.9 | 3312.9 | 3322.9 | 3289.9 | 3407.9 | 3418.9 | 3362.9 |
| 52.5° | 2986.9 | 2998.9 | 3096.9 | 3297.9 | 3517.9 | 3682.9 | 3652.9 | 3596.9 | 3589.9 | 3632.9 | 3548.9 |
| 55° | 2738.9 | 2727.9 | 2862.9 | 3175.9 | 3587.9 | 3983.9 | 3987.9 | 3928.9 | 3815.9 | 3786.9 | 3520.9 |
| 56° | 2527.9 | 2484.9 | 2656.9 | 3034.9 | 3497.9 | 3957.9 | 4002.9 | 3939.9 | 3833.9 | 3703.9 | 3347.9 |
| 57.5° | 2070.9 | 2111.9 | 2282.9 | 2595.9 | 3186.9 | 3770.9 | 3796.9 | 3781.9 | 3701.9 | 3483.9 | 2945.9 |
| 60° | 1142.0 | 1214.0 | 1365.0 | 1748.0 | 2268.9 | 2893.9 | 2914.9 | 3036.9 | 3051.9 | 2667.9 | 2027.0 |
| 62.5° | 485.0 | 477.0 | 634.0 | 916.0 | 1292.0 | 1747.0 | 1786.0 | 1911.0 | 1934.0 | 1538.0 | 1017.0 |
| 65° | 197.0 | 208.0 | 287.0 | 461.0 | 683.0 | 796.0 | 851.0 | 892.0 | 968.0 | 635.0 | 375.0 |
| 67.5° | 130.0 | 129.0 | 169.0 | 263.0 | 368.0 | 355.0 | 355.0 | 375.0 | 347.0 | 259.0 | 162.0 |
| 70° | 93.0 | 96.0 | 121.0 | 182.0 | 229.0 | 170.0 | 163.0 | 156.0 | 177.0 | 171.0 | 131.0 |
| 72.5° | 61.0 | 65.0 | 81.0 | 109.0 | 119.0 | 93.0 | 93.0 | 112.0 | 146.0 | 138.0 | 107.0 |
| 75° | 40.0 | 41.0 | 50.0 | 63.0 | 59.0 | 48.0 | 53.0 | 75.0 | 106.0 | 102.0 | 76.0 |
| 77.5° | 27.0 | 28.0 | 34.0 | 41.0 | 33.0 | 27.0 | 29.0 | 38.0 | 52.0 | 52.0 | 40.0 |
| 80° | 10.0 | 11.0 | 14.0 | 13.0 | 15.0 | 19.0 | 21.0 | 26.0 | 31.0 | 31.0 | 27.0 |
| 82.5° | 0.0 | 1.0 | 3.0 | 7.0 | 11.0 | 15.0 | 17.0 | 20.0 | 23.0 | 26.0 | 25.0 |
| 85° | 0.0 | 1.0 | 3.0 | 5.0 | 8.0 | 9.0 | 10.0 | 7.0 | 6.0 | 6.0 | 5.0 |
| 87.5° | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 | 1.0 |
| 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: P527099

CATALOG NUMBER: GALN-SA2A-750-U-T3-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 | 1049.0 |
| 2.5° | 1049.0 | 1048.0 | 1048.0 | 1045.0 | 1051.0 | 1048.0 | 1050.0 | 1049.0 | 1036.0 | 1046.0 | 1039.0 |
| 5° | 1060.0 | 1067.0 | 1056.0 | 1054.0 | 1046.0 | 1049.0 | 1049.0 | 1039.0 | 1048.0 | 1047.0 | 1045.0 |
| 7.5° | 1088.0 | 1076.0 | 1064.0 | 1052.0 | 1050.0 | 1047.0 | 1036.0 | 1032.0 | 1039.0 | 1031.0 | 1043.0 |
| 10° | 1100.0 | 1102.0 | 1084.0 | 1068.0 | 1053.0 | 1032.0 | 1017.0 | 1008.0 | 997.0 | 1009.0 | 1016.0 |
| 12.5° | 1155.0 | 1135.0 | 1104.0 | 1079.0 | 1028.0 | 1007.0 | 992.0 | 988.0 | 1007.0 | 1011.0 | 1004.0 |
| 15° | 1174.0 | 1171.0 | 1131.0 | 1075.0 | 1022.0 | 997.0 | 1000.0 | 992.0 | 994.0 | 984.0 | 986.0 |
| 17.5° | 1213.0 | 1179.0 | 1132.0 | 1062.0 | 1021.0 | 1015.0 | 997.0 | 965.0 | 947.0 | 939.0 | 946.0 |
| 20° | 1256.0 | 1223.0 | 1155.0 | 1067.0 | 1030.0 | 1014.0 | 955.0 | 916.0 | 879.0 | 859.0 | 860.0 |
| 22.5° | 1294.0 | 1253.0 | 1145.0 | 1069.0 | 1038.0 | 972.0 | 901.0 | 824.0 | 778.0 | 747.0 | 748.0 |
| 25° | 1340.0 | 1282.0 | 1149.0 | 1073.0 | 1017.0 | 905.0 | 803.0 | 728.0 | 673.0 | 652.0 | 659.0 |
| 27.5° | 1366.0 | 1300.0 | 1171.0 | 1082.0 | 962.0 | 810.0 | 700.0 | 630.0 | 598.0 | 588.0 | 587.0 |
| 30° | 1444.0 | 1340.0 | 1198.0 | 1064.0 | 870.0 | 708.0 | 606.0 | 563.0 | 532.0 | 523.0 | 525.0 |
| 32.5° | 1560.0 | 1413.0 | 1233.0 | 1017.0 | 776.0 | 617.0 | 545.0 | 513.0 | 484.0 | 467.0 | 465.0 |
| 35° | 1657.0 | 1538.0 | 1270.0 | 944.0 | 667.0 | 547.0 | 502.0 | 462.0 | 418.0 | 399.0 | 394.0 |
| 37.5° | 1842.0 | 1679.0 | 1262.0 | 834.0 | 563.0 | 495.0 | 456.0 | 407.0 | 369.0 | 343.0 | 340.0 |
| 40° | 2087.9 | 1844.0 | 1223.0 | 700.0 | 486.0 | 449.0 | 407.0 | 360.0 | 313.0 | 291.0 | 289.0 |
| 42.5° | 2386.9 | 2046.0 | 1152.0 | 564.0 | 409.0 | 403.0 | 365.0 | 311.0 | 269.0 | 253.0 | 254.0 |
| 45° | 2629.9 | 2218.9 | 1080.0 | 453.0 | 352.0 | 358.0 | 325.0 | 274.0 | 245.0 | 232.0 | 232.0 |
| 47.5° | 2845.9 | 2335.9 | 1002.0 | 374.0 | 299.0 | 313.0 | 284.0 | 254.0 | 229.0 | 219.0 | 217.0 |
| 50° | 3053.9 | 2454.9 | 924.0 | 303.0 | 255.0 | 269.0 | 266.0 | 242.0 | 222.0 | 210.0 | 211.0 |
| 52.5° | 3183.9 | 2473.9 | 825.0 | 248.0 | 223.0 | 239.0 | 249.0 | 227.0 | 205.0 | 198.0 | 196.0 |
| 55° | 3024.9 | 2228.9 | 640.0 | 204.0 | 189.0 | 210.0 | 229.0 | 204.0 | 187.0 | 175.0 | 174.0 |
| 56° | 2810.9 | 1993.0 | 535.0 | 188.0 | 179.0 | 202.0 | 222.0 | 195.0 | 176.0 | 169.0 | 164.0 |
| 57.5° | 2379.9 | 1631.0 | 395.0 | 167.0 | 166.0 | 188.0 | 211.0 | 186.0 | 164.0 | 158.0 | 158.0 |
| 60° | 1484.0 | 918.0 | 239.0 | 140.0 | 144.0 | 167.0 | 190.0 | 166.0 | 146.0 | 146.0 | 149.0 |
| 62.5° | 676.0 | 382.0 | 145.0 | 119.0 | 124.0 | 144.0 | 169.0 | 150.0 | 139.0 | 150.0 | 152.0 |
| 65° | 230.0 | 165.0 | 105.0 | 95.0 | 98.0 | 119.0 | 145.0 | 152.0 | 151.0 | 158.0 | 162.0 |
| 67.5° | 129.0 | 106.0 | 88.0 | 79.0 | 77.0 | 88.0 | 119.0 | 152.0 | 146.0 | 143.0 | 145.0 |
| 70° | 109.0 | 90.0 | 78.0 | 70.0 | 67.0 | 71.0 | 92.0 | 115.0 | 103.0 | 100.0 | 98.0 |
| 72.5° | 88.0 | 75.0 | 68.0 | 63.0 | 54.0 | 46.0 | 42.0 | 44.0 | 49.0 | 52.0 | 57.0 |
| 75° | 62.0 | 57.0 | 57.0 | 51.0 | 39.0 | 29.0 | 23.0 | 19.0 | 13.0 | 9.0 | 10.0 |
| 77.5° | 35.0 | 35.0 | 36.0 | 31.0 | 25.0 | 19.0 | 14.0 | 10.0 | 5.0 | 2.0 | 1.0 |
| 80° | 24.0 | 26.0 | 28.0 | 25.0 | 21.0 | 17.0 | 12.0 | 7.0 | 3.0 | 0.0 | 0.0 |
| 82.5° | 24.0 | 27.0 | 29.0 | 25.0 | 21.0 | 16.0 | 12.0 | 7.0 | 3.0 | 1.0 | 0.0 |
| 85° | 5.0 | 6.0 | 7.0 | 8.0 | 12.0 | 12.0 | 9.0 | 6.0 | 3.0 | 1.0 | 0.0 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 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)