

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: P527049

Luminaire Tested: **GALN-SA2A-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5210 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

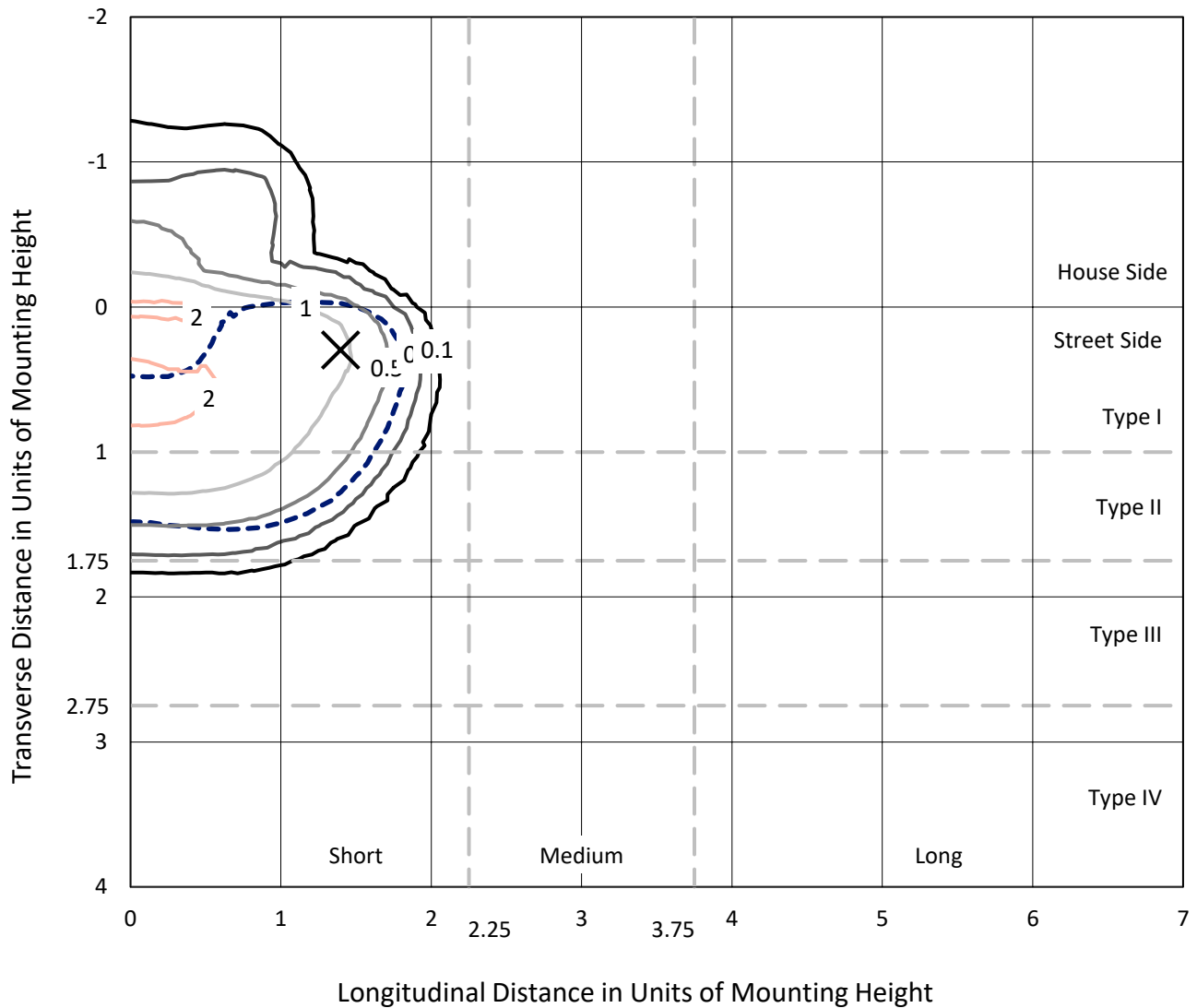
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527049
 CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

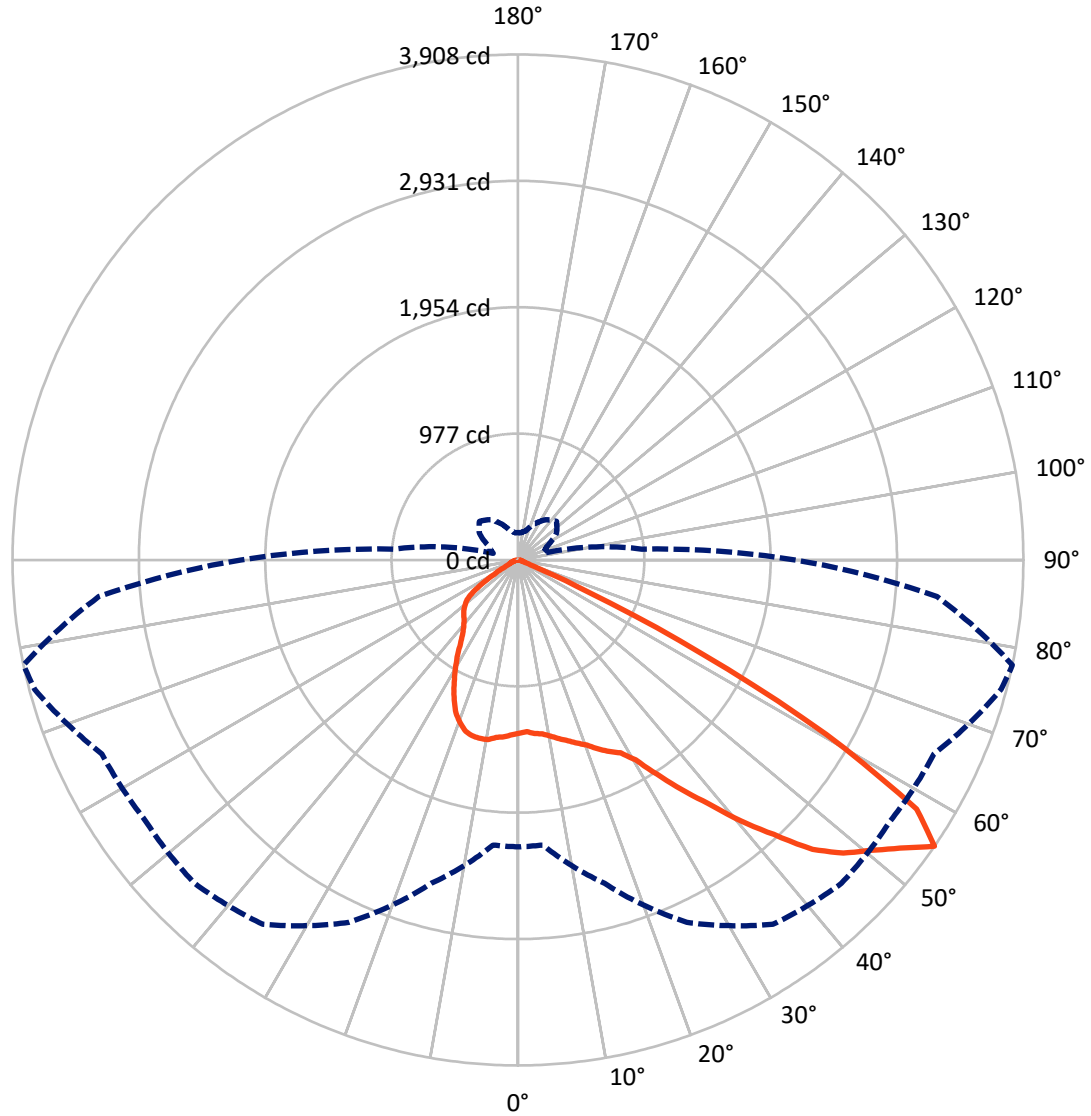
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

REPORT NUMBER: P527049
CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P527049

CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

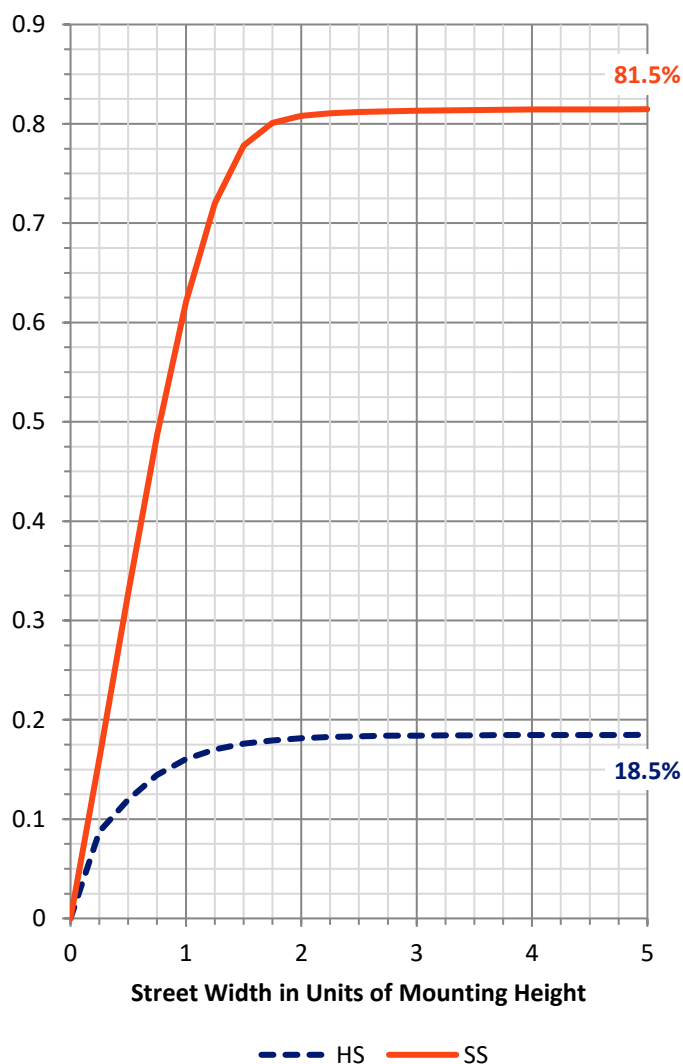
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 967.7 | 0.0 | 967.7 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 4242.3 | 0.0 | 4242.3 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 5210.0 | 0.0 | 5210.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 119.4 | 2.3 |
| 10°-20° | 316.1 | 6.1 |
| 20°-30° | 554.1 | 10.6 |
| 30°-40° | 913.6 | 17.5 |
| 40°-50° | 1329.4 | 25.5 |
| 50°-60° | 1506.3 | 28.9 |
| 60°-70° | 430.7 | 8.3 |
| 70°-80° | 33.4 | 0.6 |
| 80°-90° | 7.0 | 0.1 |
| 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° | 5210.0 | 100.0 |
| 0°-180° | 5210.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P527049

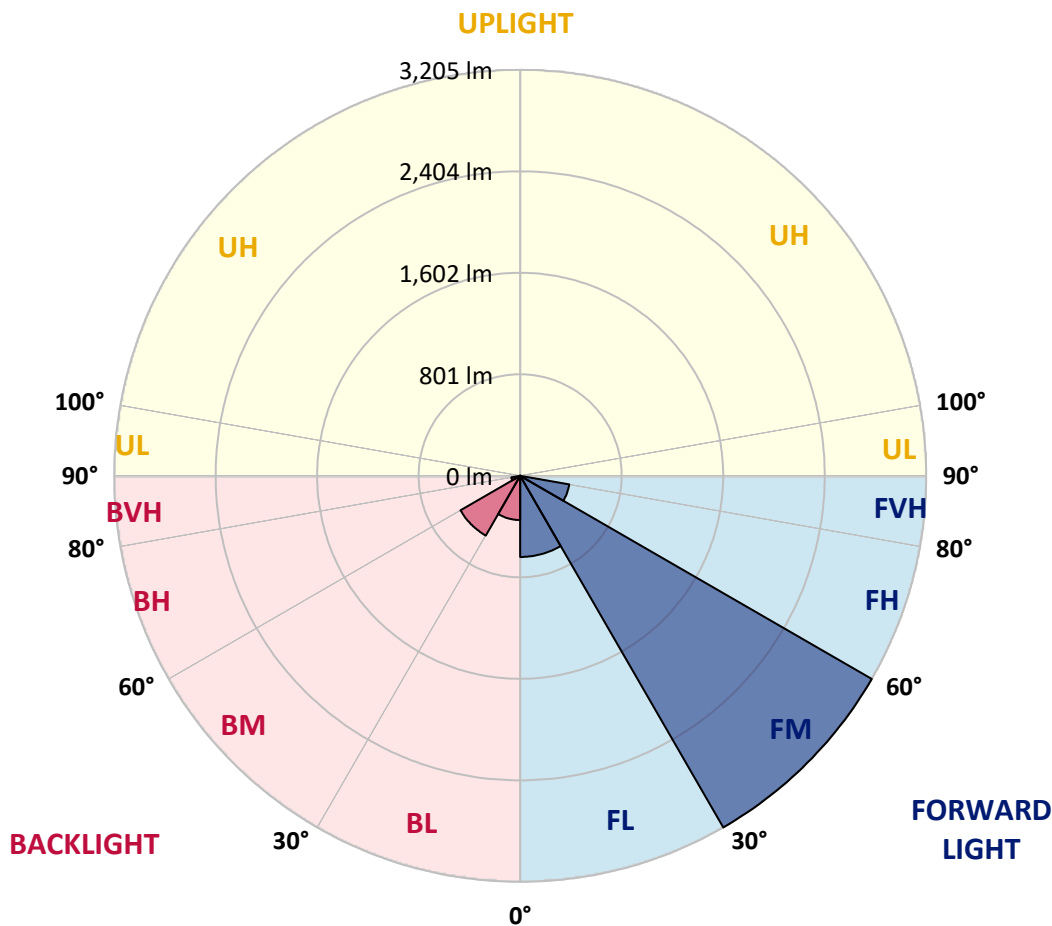
CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 640.5 | 12.3 | | | |
| FM (30°-60°) | 3205.0 | 61.5 | | | |
| FH (60°-80°) | 393.5 | 7.6 | | | G0/660 |
| FVH (80°-90°) | 3.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 349.1 | 6.7 | B1/500 | | |
| BM (30°-60°) | 544.3 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 70.6 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.6 | 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: P527049

CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 |
| 2.5° | 1259.4 | 1271.5 | 1273.4 | 1288.3 | 1287.3 | 1312.5 | 1319.9 | 1320.9 | 1337.6 | 1329.2 | 1350.7 |
| 5° | 1224.0 | 1217.5 | 1214.7 | 1240.8 | 1248.2 | 1270.6 | 1289.2 | 1300.4 | 1334.8 | 1346.9 | 1369.3 |
| 7.5° | 1192.3 | 1192.3 | 1194.2 | 1217.5 | 1214.7 | 1243.5 | 1263.1 | 1297.6 | 1347.9 | 1358.1 | 1385.1 |
| 10° | 1161.6 | 1150.4 | 1164.4 | 1188.6 | 1209.1 | 1222.1 | 1263.1 | 1295.7 | 1354.4 | 1384.2 | 1421.5 |
| 12.5° | 1145.7 | 1151.3 | 1153.2 | 1170.9 | 1193.2 | 1232.4 | 1254.7 | 1308.8 | 1401.0 | 1418.7 | 1458.7 |
| 15° | 1245.4 | 1234.2 | 1207.2 | 1191.4 | 1210.0 | 1228.6 | 1284.5 | 1339.5 | 1425.2 | 1450.3 | 1495.1 |
| 17.5° | 1360.9 | 1351.6 | 1329.2 | 1286.4 | 1244.5 | 1278.9 | 1322.7 | 1373.0 | 1451.3 | 1488.5 | 1554.7 |
| 20° | 1511.8 | 1496.9 | 1474.6 | 1390.7 | 1354.4 | 1317.1 | 1363.7 | 1423.3 | 1494.1 | 1527.7 | 1595.7 |
| 22.5° | 1691.6 | 1691.6 | 1641.3 | 1539.8 | 1464.3 | 1428.9 | 1448.5 | 1482.9 | 1541.6 | 1587.3 | 1654.3 |
| 25° | 1878.8 | 1873.2 | 1827.6 | 1722.3 | 1594.7 | 1552.8 | 1575.2 | 1599.4 | 1615.2 | 1640.4 | 1685.1 |
| 27.5° | 2093.1 | 2060.5 | 2002.7 | 1886.3 | 1773.6 | 1692.5 | 1716.8 | 1695.3 | 1675.8 | 1688.8 | 1753.1 |
| 30° | 2238.4 | 2258.9 | 2185.3 | 2073.5 | 1967.3 | 1877.0 | 1881.6 | 1863.0 | 1773.6 | 1792.2 | 1830.4 |
| 32.5° | 2389.3 | 2402.3 | 2361.3 | 2299.9 | 2193.7 | 2088.4 | 2050.2 | 2034.4 | 1967.3 | 1975.7 | 1938.4 |
| 35° | 2515.0 | 2540.2 | 2503.9 | 2476.9 | 2446.1 | 2361.3 | 2256.1 | 2307.3 | 2199.3 | 2178.8 | 2081.9 |
| 37.5° | 2630.6 | 2623.1 | 2665.9 | 2638.0 | 2631.5 | 2571.9 | 2456.4 | 2466.6 | 2393.9 | 2389.3 | 2277.5 |
| 40° | 2733.9 | 2735.8 | 2794.5 | 2807.5 | 2781.5 | 2675.3 | 2507.6 | 2588.6 | 2647.3 | 2652.9 | 2509.5 |
| 42.5° | 2819.6 | 2844.8 | 2895.1 | 3000.4 | 2961.2 | 2784.2 | 2560.7 | 2649.2 | 2867.2 | 2901.6 | 2729.3 |
| 45° | 2894.2 | 2945.4 | 3007.8 | 3101.9 | 3079.5 | 2938.9 | 2693.0 | 2774.0 | 3101.9 | 3192.2 | 2936.1 |
| 47.5° | 2898.8 | 2965.9 | 3033.9 | 3173.6 | 3201.6 | 3021.8 | 2829.9 | 2971.5 | 3288.2 | 3386.0 | 3087.0 |
| 50° | 2880.2 | 2915.6 | 3051.6 | 3203.4 | 3266.8 | 3156.8 | 3021.8 | 3137.3 | 3468.9 | 3530.4 | 3163.4 |
| 52.5° | 2659.4 | 2686.4 | 2959.4 | 3231.4 | 3384.1 | 3309.6 | 3276.1 | 3368.3 | 3653.3 | 3699.0 | 3235.1 |
| 55° | 2217.0 | 2212.3 | 2587.7 | 3090.7 | 3438.2 | 3536.0 | 3515.5 | 3548.1 | 3866.6 | 3907.6 | 3252.8 |
| 57.5° | 1516.5 | 1601.2 | 1925.4 | 2573.7 | 3107.5 | 3482.9 | 3504.3 | 3450.3 | 3617.9 | 3633.8 | 2835.5 |
| 60° | 817.9 | 853.3 | 1114.1 | 1717.7 | 2366.0 | 2838.3 | 2894.2 | 2796.4 | 2783.3 | 2738.6 | 2024.1 |
| 62.5° | 325.1 | 342.8 | 490.9 | 850.5 | 1289.2 | 1725.1 | 1845.3 | 1805.2 | 1719.5 | 1602.2 | 1047.9 |
| 65° | 154.6 | 165.8 | 244.1 | 397.7 | 571.9 | 719.1 | 839.3 | 876.5 | 646.5 | 582.2 | 345.6 |
| 67.5° | 105.3 | 113.6 | 177.9 | 227.3 | 204.0 | 213.3 | 277.6 | 258.0 | 151.8 | 129.5 | 95.9 |
| 70° | 80.1 | 85.7 | 142.5 | 154.6 | 91.3 | 64.3 | 71.7 | 67.1 | 62.4 | 63.3 | 62.4 |
| 72.5° | 56.8 | 61.5 | 104.3 | 91.3 | 40.1 | 29.8 | 38.2 | 45.6 | 45.6 | 45.6 | 44.7 |
| 75° | 34.5 | 39.1 | 60.5 | 35.4 | 15.8 | 15.8 | 24.2 | 30.7 | 32.6 | 33.5 | 31.7 |
| 77.5° | 17.7 | 22.4 | 20.5 | 10.2 | 10.2 | 12.1 | 17.7 | 21.4 | 23.3 | 23.3 | 22.4 |
| 80° | 3.7 | 3.7 | 3.7 | 5.6 | 10.2 | 13.0 | 17.7 | 19.6 | 22.4 | 22.4 | 20.5 |
| 82.5° | 0.0 | 0.9 | 2.8 | 5.6 | 9.3 | 12.1 | 16.8 | 19.6 | 22.4 | 23.3 | 21.4 |
| 85° | 0.0 | 0.9 | 1.9 | 3.7 | 6.5 | 7.5 | 6.5 | 5.6 | 5.6 | 5.6 | 5.6 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 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: P527049

CATALOG NUMBER: GALN-SA2A-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 | 1339.5 |
| 2.5° | 1352.5 | 1355.3 | 1350.7 | 1349.7 | 1346.0 | 1357.2 | 1330.2 | 1323.7 | 1340.4 | 1324.6 | 1328.3 |
| 5° | 1370.2 | 1376.8 | 1368.4 | 1354.4 | 1333.9 | 1302.2 | 1275.2 | 1239.8 | 1223.1 | 1210.9 | 1209.1 |
| 7.5° | 1383.3 | 1387.9 | 1379.5 | 1334.8 | 1273.4 | 1193.2 | 1133.6 | 1089.9 | 1055.4 | 1045.1 | 1028.4 |
| 10° | 1436.4 | 1437.3 | 1395.4 | 1296.6 | 1176.5 | 1071.2 | 979.9 | 912.9 | 878.4 | 857.0 | 847.7 |
| 12.5° | 1471.8 | 1469.9 | 1385.1 | 1221.2 | 1061.0 | 921.3 | 816.9 | 735.9 | 704.2 | 694.0 | 687.4 |
| 15° | 1516.5 | 1506.2 | 1360.9 | 1143.9 | 911.9 | 761.0 | 667.0 | 611.1 | 608.3 | 601.7 | 608.3 |
| 17.5° | 1551.9 | 1523.0 | 1325.5 | 1003.2 | 769.4 | 626.9 | 565.4 | 569.1 | 576.6 | 583.1 | 584.0 |
| 20° | 1609.6 | 1550.0 | 1244.5 | 880.3 | 637.1 | 537.5 | 536.5 | 553.3 | 571.9 | 579.4 | 586.8 |
| 22.5° | 1653.4 | 1561.2 | 1157.9 | 748.9 | 529.1 | 501.1 | 517.0 | 542.1 | 556.1 | 563.6 | 574.7 |
| 25° | 1669.2 | 1530.5 | 1042.3 | 617.6 | 476.9 | 484.4 | 508.6 | 525.4 | 543.1 | 551.4 | 546.8 |
| 27.5° | 1685.1 | 1514.6 | 904.5 | 508.6 | 449.0 | 473.2 | 493.7 | 510.5 | 516.0 | 527.2 | 534.7 |
| 30° | 1723.3 | 1459.7 | 780.6 | 439.7 | 435.0 | 465.7 | 480.7 | 486.2 | 501.1 | 507.7 | 507.7 |
| 32.5° | 1754.0 | 1438.2 | 649.3 | 407.1 | 433.1 | 469.5 | 471.3 | 471.3 | 473.2 | 468.5 | 466.7 |
| 35° | 1817.4 | 1364.6 | 531.9 | 387.5 | 432.2 | 470.4 | 475.1 | 459.2 | 416.4 | 399.6 | 395.0 |
| 37.5° | 1895.6 | 1317.1 | 445.3 | 382.8 | 438.7 | 481.6 | 489.0 | 429.4 | 373.5 | 346.5 | 341.9 |
| 40° | 1990.6 | 1283.6 | 388.4 | 381.0 | 453.6 | 507.7 | 485.3 | 406.1 | 333.5 | 294.4 | 292.5 |
| 42.5° | 2101.5 | 1252.9 | 350.2 | 380.1 | 472.3 | 534.7 | 481.6 | 386.6 | 292.5 | 266.4 | 270.1 |
| 45° | 2190.0 | 1236.1 | 324.2 | 373.5 | 478.8 | 550.5 | 484.4 | 352.1 | 275.7 | 259.0 | 260.8 |
| 47.5° | 2258.9 | 1200.7 | 302.7 | 362.4 | 477.9 | 556.1 | 459.2 | 338.1 | 267.3 | 272.0 | 276.7 |
| 50° | 2260.7 | 1153.2 | 275.7 | 338.1 | 463.9 | 545.9 | 430.4 | 325.1 | 265.5 | 285.0 | 294.4 |
| 52.5° | 2235.6 | 1086.1 | 246.8 | 303.7 | 431.3 | 510.5 | 404.3 | 319.5 | 257.1 | 255.2 | 266.4 |
| 55° | 2146.2 | 960.4 | 198.4 | 245.9 | 364.2 | 421.0 | 381.0 | 309.3 | 231.9 | 210.5 | 212.4 |
| 57.5° | 1734.4 | 688.4 | 146.2 | 176.1 | 258.0 | 308.3 | 343.7 | 304.6 | 208.7 | 178.8 | 179.8 |
| 60° | 1074.0 | 390.3 | 107.1 | 120.2 | 159.3 | 187.2 | 278.5 | 283.2 | 186.3 | 150.9 | 149.0 |
| 62.5° | 551.4 | 192.8 | 82.9 | 84.8 | 97.8 | 109.9 | 191.0 | 237.5 | 168.6 | 143.5 | 143.5 |
| 65° | 184.4 | 95.0 | 72.7 | 65.2 | 65.2 | 68.0 | 115.5 | 164.9 | 142.5 | 120.2 | 120.2 |
| 67.5° | 79.2 | 70.8 | 63.3 | 56.8 | 52.2 | 49.4 | 65.2 | 95.9 | 106.2 | 91.3 | 87.6 |
| 70° | 61.5 | 59.6 | 55.0 | 47.5 | 41.0 | 37.3 | 38.2 | 49.4 | 60.5 | 58.7 | 56.8 |
| 72.5° | 45.6 | 45.6 | 43.8 | 37.3 | 31.7 | 27.0 | 25.2 | 26.1 | 28.9 | 29.8 | 30.7 |
| 75° | 31.7 | 32.6 | 32.6 | 28.9 | 23.3 | 19.6 | 16.8 | 14.0 | 11.2 | 9.3 | 8.4 |
| 77.5° | 21.4 | 22.4 | 24.2 | 21.4 | 17.7 | 13.0 | 10.2 | 7.5 | 4.7 | 1.9 | 1.9 |
| 80° | 18.6 | 21.4 | 23.3 | 21.4 | 18.6 | 14.0 | 10.2 | 5.6 | 2.8 | 0.0 | 0.0 |
| 82.5° | 19.6 | 21.4 | 24.2 | 20.5 | 17.7 | 13.0 | 10.2 | 6.5 | 2.8 | 0.9 | 0.0 |
| 85° | 4.7 | 4.7 | 5.6 | 6.5 | 8.4 | 9.3 | 7.5 | 4.7 | 2.8 | 0.9 | 0.0 |
| 87.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 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)