

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: P652403

Luminaire Tested: **GALN-SA5B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14136.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

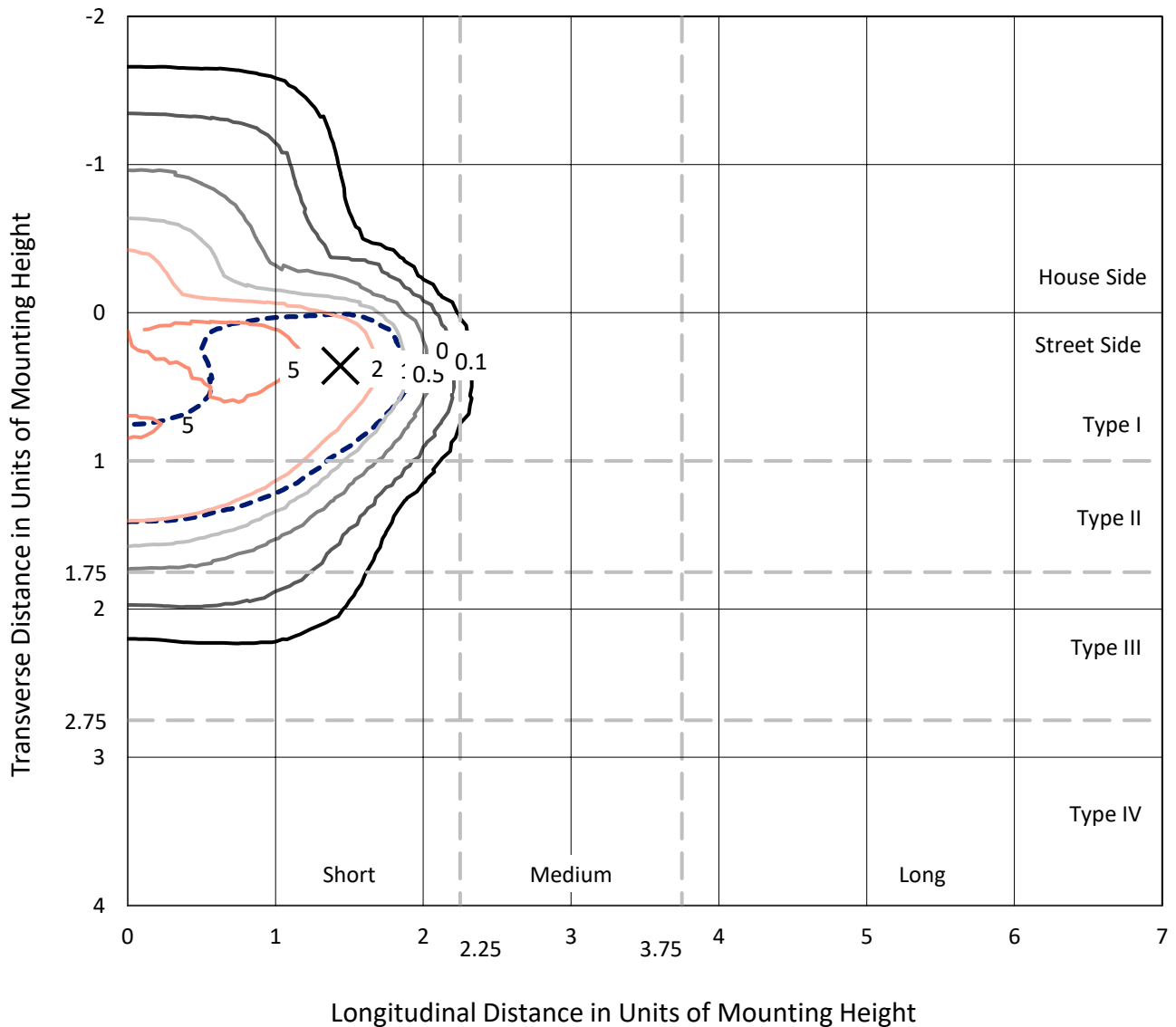
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652403
 CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

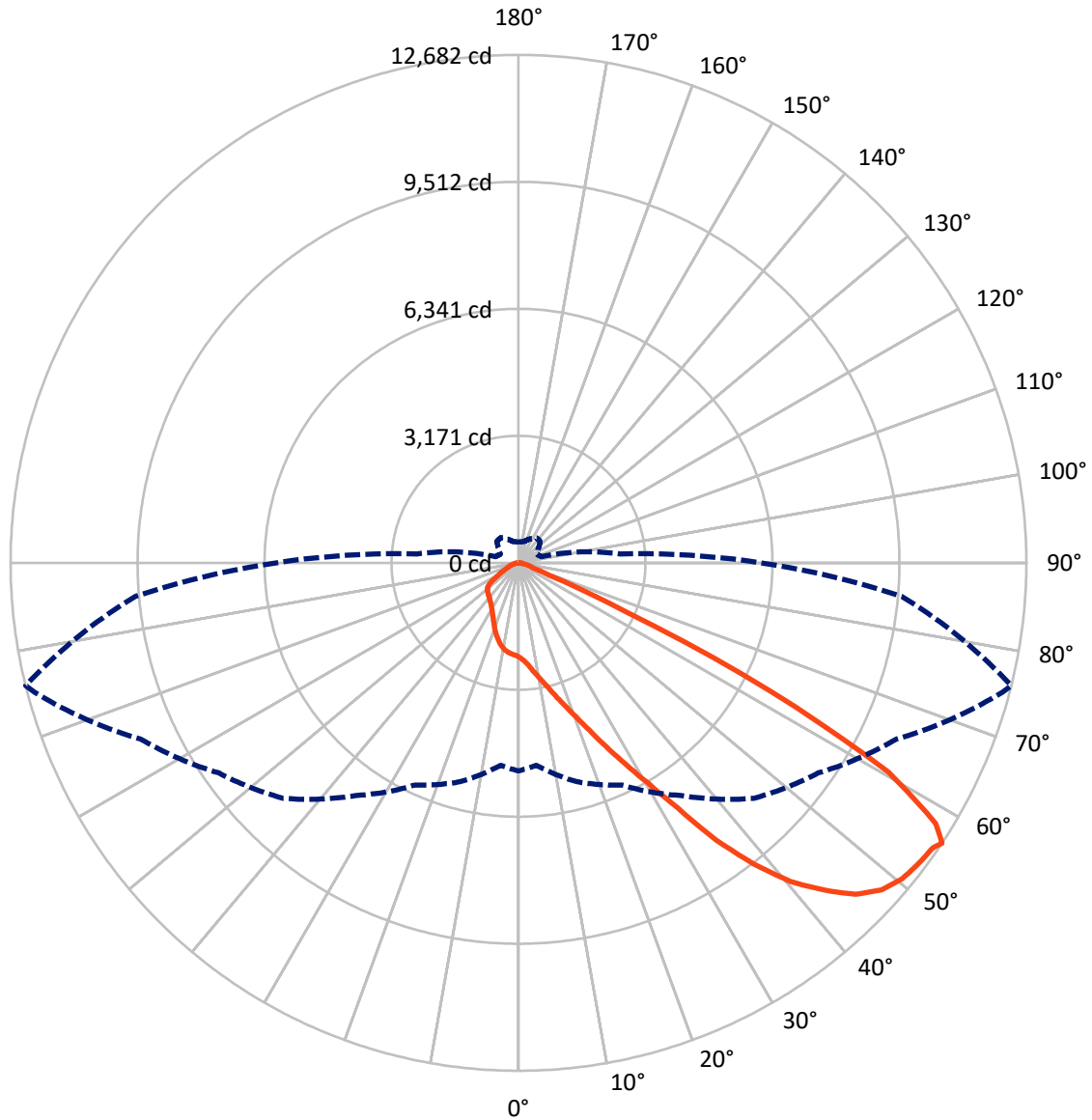
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

REPORT NUMBER: P652403
CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P652403
 CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

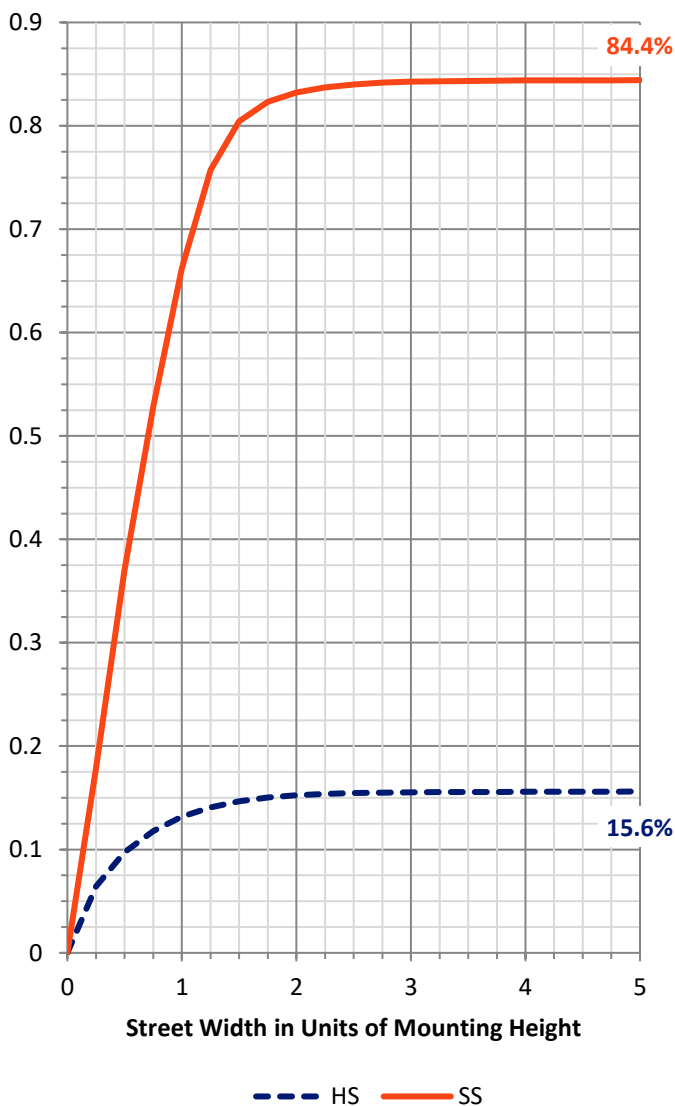
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2220.8 | 0.0 | 2220.8 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 11915.6 | 0.0 | 11915.6 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 14136.4 | 0.0 | 14136.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 237.0 | 1.7 |
| 10°-20° | 761.5 | 5.4 |
| 20°-30° | 1380.8 | 9.8 |
| 30°-40° | 2381.3 | 16.8 |
| 40°-50° | 3868.4 | 27.4 |
| 50°-60° | 4077.5 | 28.8 |
| 60°-70° | 1245.8 | 8.8 |
| 70°-80° | 159.7 | 1.1 |
| 80°-90° | 24.3 | 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° | 14136.4 | 100.0 |
| 0°-180° | 14136.4 | 100.0 |

Coefficient of Utilization

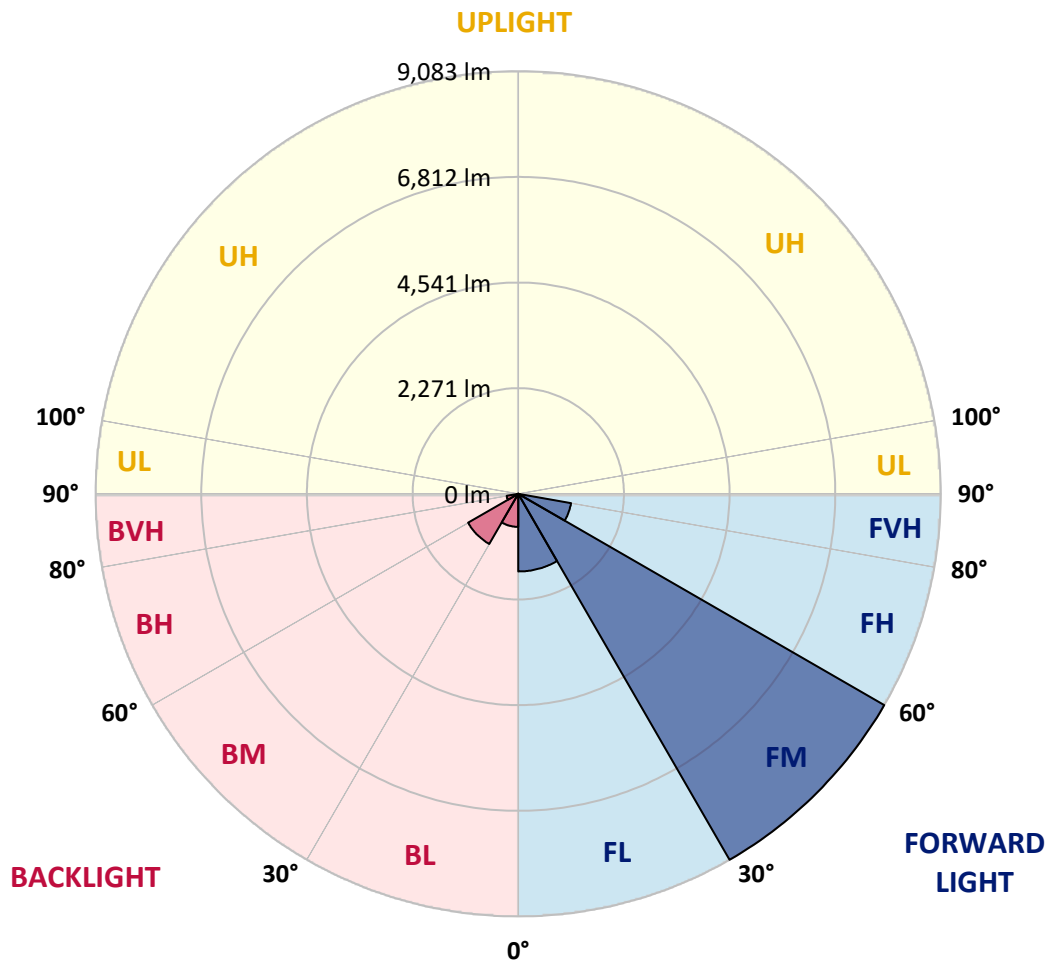


REPORT NUMBER: P652403
 CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1668.9 | 11.8 | | | |
| FM (30°-60°) | 9082.6 | 64.2 | | | |
| FH (60°-80°) | 1152.2 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 11.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 710.4 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1244.6 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 253.4 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 12.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





REPORT NUMBER: P652403

CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 |
| 2.5° | 2710.0 | 2647.5 | 2650.1 | 2644.9 | 2637.0 | 2608.4 | 2522.4 | 2509.4 | 2452.0 | 2436.4 | 2384.3 |
| 5° | 3035.8 | 2981.0 | 3012.3 | 2965.4 | 2921.0 | 2895.1 | 2754.3 | 2689.2 | 2597.9 | 2564.1 | 2491.1 |
| 7.5° | 3238.9 | 3213.0 | 3202.5 | 3205.1 | 3163.4 | 3098.2 | 3035.8 | 2892.5 | 2769.9 | 2743.8 | 2590.1 |
| 10° | 3338.0 | 3322.4 | 3338.0 | 3330.2 | 3348.4 | 3356.3 | 3246.8 | 3160.8 | 2981.0 | 2936.7 | 2697.0 |
| 12.5° | 3361.5 | 3392.8 | 3405.7 | 3439.6 | 3483.9 | 3559.5 | 3551.7 | 3434.4 | 3194.7 | 3166.0 | 2861.2 |
| 15° | 3418.7 | 3444.8 | 3431.8 | 3486.5 | 3570.0 | 3697.6 | 3765.3 | 3747.1 | 3489.1 | 3437.0 | 3051.4 |
| 17.5° | 3470.9 | 3424.0 | 3468.3 | 3577.7 | 3661.1 | 3856.6 | 4020.7 | 4096.3 | 3809.6 | 3749.7 | 3226.0 |
| 20° | 3541.3 | 3528.2 | 3520.4 | 3575.1 | 3723.7 | 3984.2 | 4310.0 | 4448.0 | 4169.3 | 4106.7 | 3476.1 |
| 22.5° | 3754.9 | 3757.5 | 3752.3 | 3671.6 | 3778.4 | 4072.8 | 4562.8 | 4904.0 | 4599.2 | 4547.1 | 3760.1 |
| 25° | 4036.4 | 4002.5 | 3976.4 | 3911.2 | 3898.3 | 4153.6 | 4818.1 | 5461.7 | 5115.1 | 5078.6 | 4067.7 |
| 27.5° | 4333.4 | 4333.4 | 4255.2 | 4195.3 | 4111.9 | 4354.3 | 5052.6 | 6003.7 | 5737.9 | 5688.4 | 4336.0 |
| 30° | 4656.5 | 4674.8 | 4664.4 | 4536.7 | 4484.5 | 4573.1 | 5292.3 | 6696.9 | 6451.9 | 6389.4 | 4779.0 |
| 32.5° | 5133.4 | 5094.3 | 5138.6 | 5031.8 | 4878.1 | 4956.2 | 5670.2 | 7317.0 | 7379.6 | 7291.0 | 5360.1 |
| 35° | 5764.0 | 5740.5 | 5711.9 | 5537.3 | 5354.9 | 5417.4 | 6204.4 | 8080.5 | 8544.4 | 8500.1 | 5946.4 |
| 37.5° | 6329.5 | 6316.4 | 6293.0 | 6173.1 | 5962.0 | 6037.6 | 6811.5 | 8875.3 | 9680.5 | 9534.6 | 6775.0 |
| 40° | 6923.5 | 6993.9 | 6918.3 | 6811.5 | 6618.7 | 6785.4 | 7525.5 | 9347.0 | 10636.8 | 10459.6 | 7408.2 |
| 42.5° | 7728.7 | 7674.0 | 7707.9 | 7512.5 | 7408.2 | 7590.6 | 8242.1 | 9818.6 | 11379.4 | 11168.4 | 8080.5 |
| 45° | 8586.0 | 8588.6 | 8497.5 | 8434.9 | 8163.9 | 8362.0 | 8682.5 | 10079.1 | 11971.0 | 11806.8 | 8588.6 |
| 47.5° | 9135.9 | 9133.3 | 9232.2 | 9331.3 | 9052.4 | 8857.1 | 8982.1 | 10326.7 | 12275.8 | 12200.3 | 8773.6 |
| 50° | 9049.9 | 9075.9 | 9203.7 | 9573.6 | 9719.5 | 9456.4 | 9263.5 | 10253.7 | 12413.9 | 12406.1 | 8932.6 |
| 52.5° | 7872.1 | 7958.0 | 8171.7 | 8705.9 | 9440.7 | 9766.4 | 9558.0 | 10389.2 | 12481.7 | 12494.7 | 9169.8 |
| 55° | 5993.3 | 6040.2 | 6446.7 | 7095.5 | 7908.5 | 9023.8 | 9440.7 | 10496.1 | 12533.8 | 12557.2 | 9456.4 |
| 56° | 5198.6 | 5073.4 | 5659.8 | 6121.0 | 7092.9 | 8312.4 | 9143.7 | 10412.7 | 12502.6 | 12682.4 | 9599.7 |
| 57.5° | 3924.3 | 3840.9 | 4315.2 | 4891.1 | 5826.5 | 7113.8 | 8221.3 | 10019.3 | 12291.5 | 12288.9 | 9393.8 |
| 60° | 2386.9 | 2303.5 | 2668.3 | 3007.1 | 3530.9 | 4380.3 | 5555.6 | 7978.9 | 10391.8 | 10610.7 | 7606.3 |
| 62.5° | 1420.1 | 1472.3 | 1831.9 | 2037.7 | 2207.1 | 2295.7 | 2874.2 | 4742.5 | 6934.0 | 7090.3 | 4719.1 |
| 65° | 945.9 | 964.1 | 1235.2 | 1573.9 | 1649.5 | 1313.3 | 1170.0 | 1920.4 | 3007.1 | 2910.6 | 1946.5 |
| 67.5° | 583.7 | 625.4 | 828.6 | 1183.0 | 1310.7 | 958.9 | 555.1 | 716.6 | 828.6 | 828.6 | 562.9 |
| 70° | 354.4 | 375.3 | 552.5 | 805.2 | 899.0 | 617.5 | 403.9 | 403.9 | 398.7 | 390.9 | 336.1 |
| 72.5° | 169.4 | 182.4 | 281.4 | 414.4 | 422.1 | 325.7 | 312.7 | 341.4 | 333.5 | 330.9 | 278.8 |
| 75° | 73.0 | 78.2 | 99.0 | 130.3 | 148.5 | 138.1 | 190.2 | 245.0 | 252.7 | 245.0 | 200.7 |
| 77.5° | 23.5 | 26.1 | 36.5 | 46.9 | 49.5 | 60.0 | 80.8 | 101.6 | 117.2 | 109.4 | 99.0 |
| 80° | 2.6 | 5.2 | 10.4 | 23.5 | 36.5 | 46.9 | 60.0 | 67.8 | 75.6 | 75.6 | 70.4 |
| 82.5° | 2.6 | 2.6 | 10.4 | 20.9 | 33.9 | 44.3 | 57.4 | 65.2 | 75.6 | 78.2 | 73.0 |
| 85° | 0.0 | 2.6 | 7.8 | 18.2 | 28.7 | 28.7 | 26.1 | 26.1 | 18.2 | 18.2 | 18.2 |
| 87.5° | 0.0 | 0.0 | 2.6 | 2.6 | 2.6 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| 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: P652403

CATALOG NUMBER: GALN-SA5B-840-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 | 2353.0 |
| 2.5° | 2373.9 | 2368.7 | 2298.3 | 2254.0 | 2230.6 | 2183.7 | 2155.0 | 2134.1 | 2118.5 | 2100.2 | 2102.8 |
| 5° | 2405.2 | 2386.9 | 2269.6 | 2188.9 | 2092.4 | 2040.4 | 1996.0 | 1959.5 | 1936.1 | 1930.9 | 1920.4 |
| 7.5° | 2493.7 | 2397.4 | 2220.2 | 2074.2 | 1951.7 | 1899.7 | 1860.5 | 1837.1 | 1847.5 | 1824.0 | 1842.3 |
| 10° | 2561.5 | 2418.1 | 2160.2 | 1949.1 | 1826.7 | 1787.5 | 1766.7 | 1784.9 | 1811.0 | 1800.6 | 1787.5 |
| 12.5° | 2644.9 | 2439.0 | 2063.8 | 1829.3 | 1714.6 | 1686.0 | 1722.5 | 1756.3 | 1808.4 | 1829.3 | 1803.2 |
| 15° | 2738.7 | 2462.4 | 1941.3 | 1691.2 | 1618.2 | 1641.6 | 1704.2 | 1764.1 | 1816.2 | 1842.3 | 1857.9 |
| 17.5° | 2853.3 | 2454.6 | 1821.4 | 1581.7 | 1527.0 | 1594.7 | 1670.3 | 1725.1 | 1803.2 | 1842.3 | 1831.9 |
| 20° | 2960.2 | 2428.6 | 1688.6 | 1472.3 | 1474.9 | 1537.4 | 1599.9 | 1688.6 | 1730.3 | 1782.3 | 1764.1 |
| 22.5° | 3061.8 | 2381.7 | 1550.5 | 1396.7 | 1396.7 | 1493.1 | 1524.4 | 1581.7 | 1618.2 | 1644.2 | 1641.6 |
| 25° | 3205.1 | 2293.1 | 1435.8 | 1323.7 | 1355.0 | 1417.5 | 1443.6 | 1461.8 | 1446.2 | 1467.0 | 1469.6 |
| 27.5° | 3306.7 | 2201.9 | 1342.0 | 1258.6 | 1315.9 | 1362.8 | 1355.0 | 1344.6 | 1308.1 | 1279.4 | 1297.7 |
| 30° | 3416.1 | 2095.0 | 1261.2 | 1214.3 | 1245.6 | 1287.2 | 1255.9 | 1224.7 | 1167.4 | 1120.5 | 1123.1 |
| 32.5° | 3572.5 | 2045.6 | 1190.9 | 1162.2 | 1203.9 | 1209.1 | 1175.2 | 1128.3 | 1071.0 | 1026.7 | 1024.1 |
| 35° | 3864.4 | 2014.3 | 1130.9 | 1128.3 | 1136.1 | 1138.7 | 1104.8 | 1047.5 | 1024.1 | 987.6 | 1000.6 |
| 37.5° | 4156.2 | 1998.6 | 1089.2 | 1078.8 | 1076.2 | 1078.8 | 1039.7 | 985.0 | 1029.3 | 1026.7 | 1031.9 |
| 40° | 4528.9 | 2069.0 | 1029.3 | 1016.3 | 1018.9 | 1018.9 | 969.3 | 953.7 | 1031.9 | 1039.7 | 1042.3 |
| 42.5° | 4906.6 | 2157.6 | 990.2 | 948.5 | 958.9 | 958.9 | 932.8 | 914.6 | 969.3 | 917.2 | 909.5 |
| 45° | 5235.0 | 2287.9 | 948.5 | 880.8 | 906.9 | 919.8 | 912.1 | 880.8 | 846.9 | 758.2 | 758.2 |
| 47.5° | 5341.9 | 2402.6 | 899.0 | 815.6 | 836.5 | 893.8 | 870.4 | 805.2 | 745.3 | 672.3 | 667.1 |
| 50° | 5529.5 | 2527.6 | 859.9 | 740.1 | 784.3 | 854.7 | 831.2 | 766.1 | 698.4 | 646.2 | 648.8 |
| 52.5° | 5722.3 | 2670.9 | 786.9 | 651.4 | 706.2 | 823.4 | 823.4 | 750.4 | 646.2 | 609.7 | 604.5 |
| 55° | 6011.6 | 2665.7 | 656.7 | 534.2 | 630.6 | 776.5 | 789.5 | 672.3 | 578.5 | 549.8 | 549.8 |
| 56° | 6053.3 | 2545.9 | 591.5 | 500.3 | 596.7 | 763.5 | 766.1 | 651.4 | 552.5 | 521.2 | 521.2 |
| 57.5° | 5740.5 | 2298.3 | 518.6 | 458.6 | 555.1 | 740.1 | 742.7 | 633.2 | 531.6 | 487.3 | 482.1 |
| 60° | 4416.8 | 1555.7 | 432.5 | 409.1 | 502.9 | 667.1 | 680.1 | 575.9 | 466.4 | 432.5 | 429.9 |
| 62.5° | 2493.7 | 862.5 | 380.5 | 370.0 | 432.5 | 568.1 | 607.1 | 502.9 | 396.1 | 377.9 | 383.1 |
| 65° | 1138.7 | 474.2 | 320.5 | 299.6 | 349.2 | 437.7 | 489.9 | 414.4 | 325.7 | 304.9 | 304.9 |
| 67.5° | 416.9 | 323.1 | 273.6 | 237.2 | 245.0 | 284.0 | 317.9 | 268.4 | 216.3 | 185.0 | 192.8 |
| 70° | 297.0 | 271.0 | 239.8 | 205.9 | 190.2 | 185.0 | 182.4 | 151.1 | 106.8 | 83.3 | 88.6 |
| 72.5° | 239.8 | 224.1 | 200.7 | 174.6 | 148.5 | 125.1 | 106.8 | 78.2 | 49.5 | 33.9 | 31.3 |
| 75° | 172.0 | 164.2 | 145.9 | 125.1 | 104.2 | 88.6 | 73.0 | 49.5 | 26.1 | 13.0 | 13.0 |
| 77.5° | 88.6 | 88.6 | 86.0 | 78.2 | 65.2 | 52.1 | 41.7 | 28.7 | 15.6 | 5.2 | 5.2 |
| 80° | 67.8 | 73.0 | 75.6 | 67.8 | 60.0 | 46.9 | 33.9 | 20.9 | 10.4 | 2.6 | 2.6 |
| 82.5° | 65.2 | 75.6 | 80.8 | 70.4 | 60.0 | 44.3 | 33.9 | 20.9 | 10.4 | 2.6 | 2.6 |
| 85° | 15.6 | 15.6 | 23.5 | 26.1 | 33.9 | 36.5 | 28.7 | 18.2 | 7.8 | 2.6 | 2.6 |
| 87.5° | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 5.2 | 2.6 | 2.6 | 2.6 | 2.6 | 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)