

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: P531905

Luminaire Tested: **GALN-SA7B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531905
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-SA7B-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 19552 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

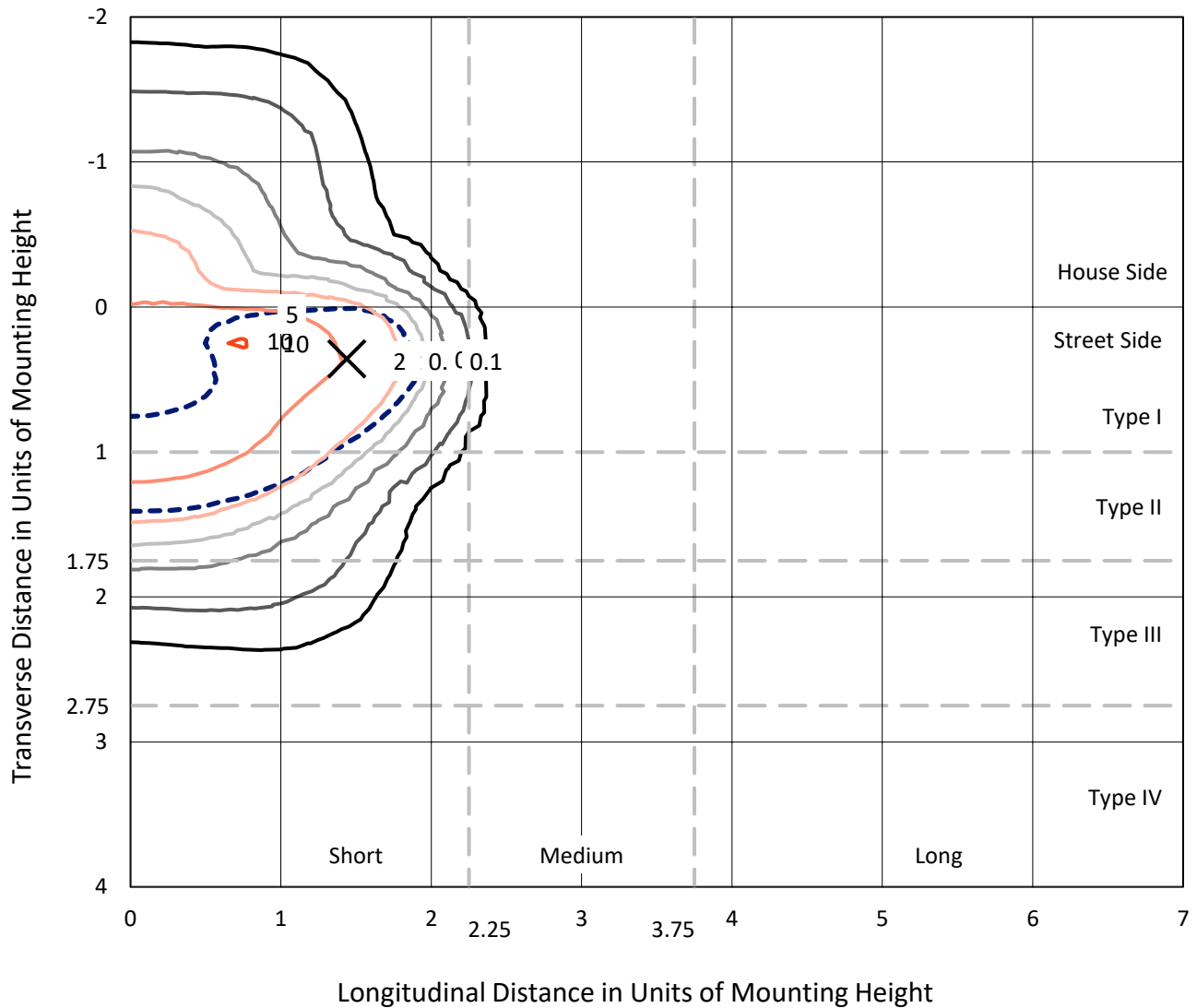
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531905
 CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

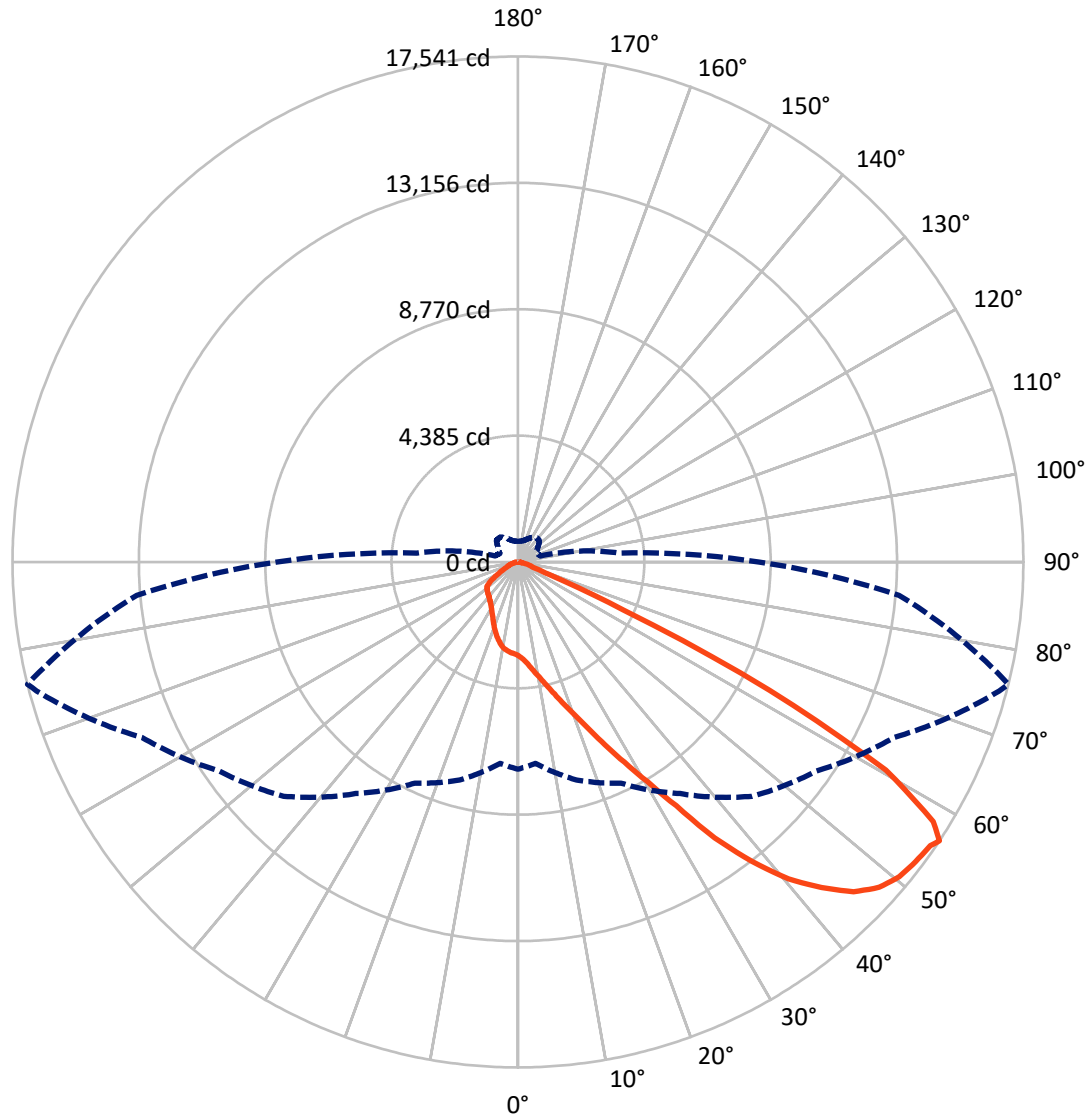
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

REPORT NUMBER: P531905
CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P531905
 CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3071.5 | 0.0 | 3071.5 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 16480.5 | 0.0 | 16480.5 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 19552.0 | 0.0 | 19552.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 327.8 | 1.7 |
| 10°-20° | 1053.2 | 5.4 |
| 20°-30° | 1909.8 | 9.8 |
| 30°-40° | 3293.5 | 16.8 |
| 40°-50° | 5350.4 | 27.4 |
| 50°-60° | 5639.6 | 28.8 |
| 60°-70° | 1723.1 | 8.8 |
| 70°-80° | 220.9 | 1.1 |
| 80°-90° | 33.6 | 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° | 19552.0 | 100.0 |
| 0°-180° | 19552.0 | 100.0 |

Coefficient of Utilization

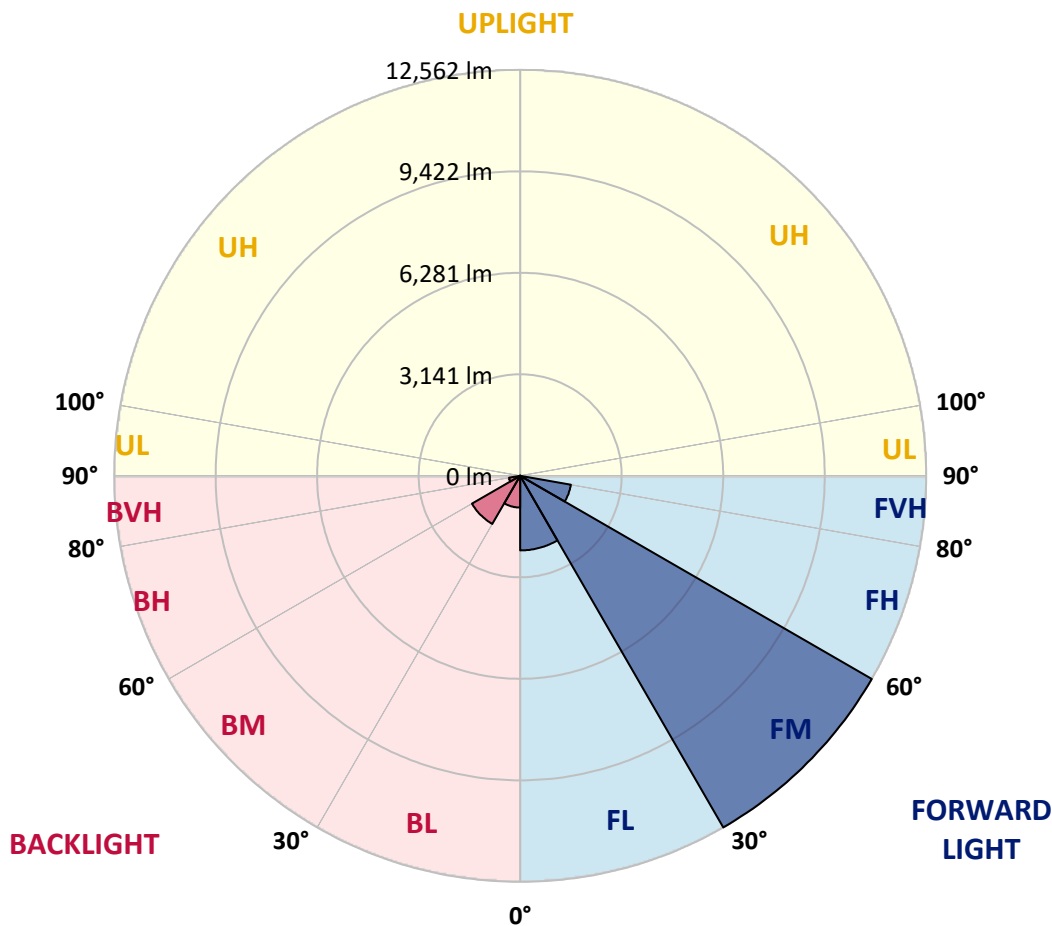


REPORT NUMBER: P531905
 CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2308.3 | 11.8 | | | |
| FM (30°-60°) | 12562.1 | 64.2 | | | |
| FH (60°-80°) | 1593.6 | 8.2 | | | G1/1800 |
| FVH (80°-90°) | 16.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 982.6 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1721.4 | 8.8 | B2/2500 | | |
| BH (60°-80°) | 350.4 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.1 | 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: P531905

CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 |
| 2.5° | 3748.2 | 3661.7 | 3665.3 | 3658.1 | 3647.3 | 3607.7 | 3488.7 | 3470.7 | 3391.4 | 3369.8 | 3297.7 |
| 5° | 4198.7 | 4123.0 | 4166.3 | 4101.4 | 4040.1 | 4004.1 | 3809.5 | 3719.4 | 3593.2 | 3546.4 | 3445.5 |
| 7.5° | 4479.8 | 4443.8 | 4429.4 | 4433.0 | 4375.3 | 4285.2 | 4198.7 | 4000.5 | 3831.1 | 3795.1 | 3582.4 |
| 10° | 4616.8 | 4595.2 | 4616.8 | 4606.0 | 4631.2 | 4642.0 | 4490.6 | 4371.7 | 4123.0 | 4061.8 | 3730.2 |
| 12.5° | 4649.2 | 4692.5 | 4710.5 | 4757.3 | 4818.6 | 4923.1 | 4912.3 | 4750.1 | 4418.6 | 4378.9 | 3957.3 |
| 15° | 4728.5 | 4764.6 | 4746.5 | 4822.2 | 4937.6 | 5114.2 | 5207.9 | 5182.6 | 4825.8 | 4753.7 | 4220.3 |
| 17.5° | 4800.6 | 4735.7 | 4797.0 | 4948.4 | 5063.7 | 5334.0 | 5561.1 | 5665.6 | 5269.1 | 5186.2 | 4461.8 |
| 20° | 4897.9 | 4879.9 | 4869.1 | 4944.8 | 5150.2 | 5510.6 | 5961.1 | 6152.1 | 5766.5 | 5680.0 | 4807.8 |
| 22.5° | 5193.4 | 5197.0 | 5189.8 | 5078.1 | 5225.9 | 5633.1 | 6310.7 | 6782.8 | 6361.2 | 6289.1 | 5200.6 |
| 25° | 5582.7 | 5535.8 | 5499.8 | 5409.7 | 5391.7 | 5744.9 | 6663.9 | 7554.1 | 7074.8 | 7024.3 | 5625.9 |
| 27.5° | 5993.5 | 5993.5 | 5885.4 | 5802.5 | 5687.2 | 6022.4 | 6988.3 | 8303.7 | 7936.1 | 7867.6 | 5997.1 |
| 30° | 6440.4 | 6465.7 | 6451.3 | 6274.7 | 6202.6 | 6325.1 | 7319.8 | 9262.4 | 8923.6 | 8837.1 | 6609.8 |
| 32.5° | 7100.0 | 7045.9 | 7107.2 | 6959.4 | 6746.8 | 6854.9 | 7842.4 | 10120.2 | 10206.7 | 10084.1 | 7413.5 |
| 35° | 7972.2 | 7939.7 | 7900.1 | 7658.6 | 7406.3 | 7492.8 | 8581.3 | 11176.2 | 11817.7 | 11756.4 | 8224.4 |
| 37.5° | 8754.2 | 8736.2 | 8703.8 | 8538.0 | 8246.1 | 8350.6 | 9421.0 | 12275.4 | 13389.1 | 13187.2 | 9370.5 |
| 40° | 9576.0 | 9673.3 | 9568.8 | 9421.0 | 9154.3 | 9385.0 | 10408.5 | 12927.7 | 14711.7 | 14466.7 | 10246.3 |
| 42.5° | 10689.6 | 10613.9 | 10660.8 | 10390.5 | 10246.3 | 10498.6 | 11399.6 | 13580.1 | 15738.9 | 15447.0 | 11176.2 |
| 45° | 11875.4 | 11879.0 | 11752.8 | 11666.3 | 11291.5 | 11565.4 | 12008.7 | 13940.5 | 16557.0 | 16330.0 | 11879.0 |
| 47.5° | 12635.8 | 12632.2 | 12769.2 | 12906.1 | 12520.5 | 12250.2 | 12423.2 | 14282.9 | 16978.7 | 16874.2 | 12134.8 |
| 50° | 12516.9 | 12552.9 | 12729.5 | 13241.3 | 13443.1 | 13079.1 | 12812.4 | 14181.9 | 17169.7 | 17158.9 | 12354.7 |
| 52.5° | 10887.8 | 11006.8 | 11302.3 | 12041.1 | 13057.5 | 13508.0 | 13219.7 | 14369.4 | 17263.4 | 17281.4 | 12682.7 |
| 55° | 8289.3 | 8354.2 | 8916.4 | 9813.8 | 10938.3 | 12480.8 | 13057.5 | 14517.1 | 17335.5 | 17367.9 | 13079.1 |
| 56° | 7190.1 | 7017.1 | 7828.0 | 8465.9 | 9810.2 | 11496.9 | 12646.6 | 14401.8 | 17292.2 | 17540.9 | 13277.3 |
| 57.5° | 5427.7 | 5312.4 | 5968.3 | 6764.8 | 8058.7 | 9839.1 | 11370.8 | 13857.6 | 17000.3 | 16996.7 | 12992.6 |
| 60° | 3301.3 | 3186.0 | 3690.6 | 4159.1 | 4883.5 | 6058.4 | 7683.8 | 11035.6 | 14373.0 | 14675.7 | 10520.2 |
| 62.5° | 1964.2 | 2036.3 | 2533.6 | 2818.4 | 3052.6 | 3175.2 | 3975.3 | 6559.4 | 9590.4 | 9806.6 | 6526.9 |
| 65° | 1308.3 | 1333.5 | 1708.3 | 2176.8 | 2281.4 | 1816.4 | 1618.2 | 2656.2 | 4159.1 | 4025.7 | 2692.2 |
| 67.5° | 807.3 | 865.0 | 1146.1 | 1636.2 | 1812.8 | 1326.3 | 767.7 | 991.1 | 1146.1 | 1146.1 | 778.5 |
| 70° | 490.2 | 519.0 | 764.1 | 1113.7 | 1243.4 | 854.2 | 558.6 | 558.6 | 551.4 | 540.6 | 464.9 |
| 72.5° | 234.3 | 252.3 | 389.2 | 573.0 | 583.9 | 450.5 | 432.5 | 472.1 | 461.3 | 457.7 | 385.6 |
| 75° | 100.9 | 108.1 | 137.0 | 180.2 | 205.4 | 191.0 | 263.1 | 338.8 | 349.6 | 338.8 | 277.5 |
| 77.5° | 32.4 | 36.0 | 50.5 | 64.9 | 68.5 | 82.9 | 111.7 | 140.6 | 162.2 | 151.4 | 137.0 |
| 80° | 3.6 | 7.2 | 14.4 | 32.4 | 50.5 | 64.9 | 82.9 | 93.7 | 104.5 | 104.5 | 97.3 |
| 82.5° | 3.6 | 3.6 | 14.4 | 28.8 | 46.9 | 61.3 | 79.3 | 90.1 | 104.5 | 108.1 | 100.9 |
| 85° | 0.0 | 3.6 | 10.8 | 25.2 | 39.6 | 39.6 | 36.0 | 36.0 | 25.2 | 25.2 | 25.2 |
| 87.5° | 0.0 | 0.0 | 3.6 | 3.6 | 3.6 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 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: P531905

CATALOG NUMBER: GALN-SA7B-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 | 3254.5 |
| 2.5° | 3283.3 | 3276.1 | 3178.8 | 3117.5 | 3085.1 | 3020.2 | 2980.6 | 2951.7 | 2930.1 | 2904.9 | 2908.5 |
| 5° | 3326.5 | 3301.3 | 3139.1 | 3027.4 | 2894.1 | 2822.0 | 2760.7 | 2710.2 | 2677.8 | 2670.6 | 2656.2 |
| 7.5° | 3449.1 | 3315.7 | 3070.7 | 2868.8 | 2699.4 | 2627.4 | 2573.3 | 2540.9 | 2555.3 | 2522.8 | 2548.1 |
| 10° | 3542.8 | 3344.6 | 2987.8 | 2695.8 | 2526.4 | 2472.4 | 2443.5 | 2468.8 | 2504.8 | 2490.4 | 2472.4 |
| 12.5° | 3658.1 | 3373.4 | 2854.4 | 2530.0 | 2371.5 | 2331.8 | 2382.3 | 2429.1 | 2501.2 | 2530.0 | 2494.0 |
| 15° | 3787.9 | 3405.8 | 2685.0 | 2339.0 | 2238.1 | 2270.6 | 2357.1 | 2439.9 | 2512.0 | 2548.1 | 2569.7 |
| 17.5° | 3946.4 | 3395.0 | 2519.2 | 2187.7 | 2112.0 | 2205.7 | 2310.2 | 2385.9 | 2494.0 | 2548.1 | 2533.6 |
| 20° | 4094.2 | 3359.0 | 2335.4 | 2036.3 | 2039.9 | 2126.4 | 2212.9 | 2335.4 | 2393.1 | 2465.2 | 2439.9 |
| 22.5° | 4234.8 | 3294.1 | 2144.4 | 1931.8 | 1931.8 | 2065.1 | 2108.4 | 2187.7 | 2238.1 | 2274.2 | 2270.6 |
| 25° | 4433.0 | 3171.6 | 1985.8 | 1830.9 | 1874.1 | 1960.6 | 1996.6 | 2021.9 | 2000.2 | 2029.1 | 2032.7 |
| 27.5° | 4573.5 | 3045.4 | 1856.1 | 1740.8 | 1820.0 | 1884.9 | 1874.1 | 1859.7 | 1809.2 | 1769.6 | 1794.8 |
| 30° | 4724.9 | 2897.7 | 1744.4 | 1679.5 | 1722.7 | 1780.4 | 1737.2 | 1693.9 | 1614.6 | 1549.7 | 1553.3 |
| 32.5° | 4941.2 | 2829.2 | 1647.1 | 1607.4 | 1665.1 | 1672.3 | 1625.4 | 1560.6 | 1481.3 | 1420.0 | 1416.4 |
| 35° | 5344.8 | 2785.9 | 1564.2 | 1560.6 | 1571.4 | 1575.0 | 1528.1 | 1448.8 | 1416.4 | 1365.9 | 1384.0 |
| 37.5° | 5748.5 | 2764.3 | 1506.5 | 1492.1 | 1488.5 | 1492.1 | 1438.0 | 1362.3 | 1423.6 | 1420.0 | 1427.2 |
| 40° | 6263.8 | 2861.6 | 1423.6 | 1405.6 | 1409.2 | 1409.2 | 1340.7 | 1319.1 | 1427.2 | 1438.0 | 1441.6 |
| 42.5° | 6786.4 | 2984.2 | 1369.5 | 1311.9 | 1326.3 | 1326.3 | 1290.3 | 1265.0 | 1340.7 | 1268.6 | 1257.8 |
| 45° | 7240.5 | 3164.4 | 1311.9 | 1218.2 | 1254.2 | 1272.2 | 1261.4 | 1218.2 | 1171.3 | 1048.8 | 1048.8 |
| 47.5° | 7388.3 | 3322.9 | 1243.4 | 1128.1 | 1156.9 | 1236.2 | 1203.8 | 1113.7 | 1030.8 | 929.8 | 922.6 |
| 50° | 7647.8 | 3495.9 | 1189.3 | 1023.6 | 1084.8 | 1182.1 | 1149.7 | 1059.6 | 965.9 | 893.8 | 897.4 |
| 52.5° | 7914.5 | 3694.2 | 1088.4 | 901.0 | 976.7 | 1138.9 | 1138.9 | 1038.0 | 893.8 | 843.3 | 836.1 |
| 55° | 8314.6 | 3686.9 | 908.2 | 738.8 | 872.2 | 1074.0 | 1092.0 | 929.8 | 800.1 | 760.5 | 760.5 |
| 56° | 8372.2 | 3521.2 | 818.1 | 692.0 | 825.3 | 1056.0 | 1059.6 | 901.0 | 764.1 | 720.8 | 720.8 |
| 57.5° | 7939.7 | 3178.8 | 717.2 | 634.3 | 767.7 | 1023.6 | 1027.2 | 875.8 | 735.2 | 674.0 | 666.7 |
| 60° | 6108.9 | 2151.6 | 598.3 | 565.8 | 695.6 | 922.6 | 940.7 | 796.5 | 645.1 | 598.3 | 594.7 |
| 62.5° | 3449.1 | 1192.9 | 526.2 | 511.8 | 598.3 | 785.7 | 839.7 | 695.6 | 547.8 | 522.6 | 529.8 |
| 65° | 1575.0 | 655.9 | 443.3 | 414.5 | 482.9 | 605.5 | 677.6 | 573.0 | 450.5 | 421.7 | 421.7 |
| 67.5° | 576.6 | 446.9 | 378.4 | 328.0 | 338.8 | 392.8 | 439.7 | 371.2 | 299.1 | 255.9 | 266.7 |
| 70° | 410.9 | 374.8 | 331.6 | 284.7 | 263.1 | 255.9 | 252.3 | 209.0 | 147.8 | 115.3 | 122.5 |
| 72.5° | 331.6 | 309.9 | 277.5 | 241.5 | 205.4 | 173.0 | 147.8 | 108.1 | 68.5 | 46.9 | 43.2 |
| 75° | 237.9 | 227.1 | 201.8 | 173.0 | 144.2 | 122.5 | 100.9 | 68.5 | 36.0 | 18.0 | 18.0 |
| 77.5° | 122.5 | 122.5 | 118.9 | 108.1 | 90.1 | 72.1 | 57.7 | 39.6 | 21.6 | 7.2 | 7.2 |
| 80° | 93.7 | 100.9 | 104.5 | 93.7 | 82.9 | 64.9 | 46.9 | 28.8 | 14.4 | 3.6 | 3.6 |
| 82.5° | 90.1 | 104.5 | 111.7 | 97.3 | 82.9 | 61.3 | 46.9 | 28.8 | 14.4 | 3.6 | 3.6 |
| 85° | 21.6 | 21.6 | 32.4 | 36.0 | 46.9 | 50.5 | 39.6 | 25.2 | 10.8 | 3.6 | 3.6 |
| 87.5° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 3.6 | 3.6 | 3.6 | 3.6 | 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)