

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: P531756

Luminaire Tested: **GALN-SA7A-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27806 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

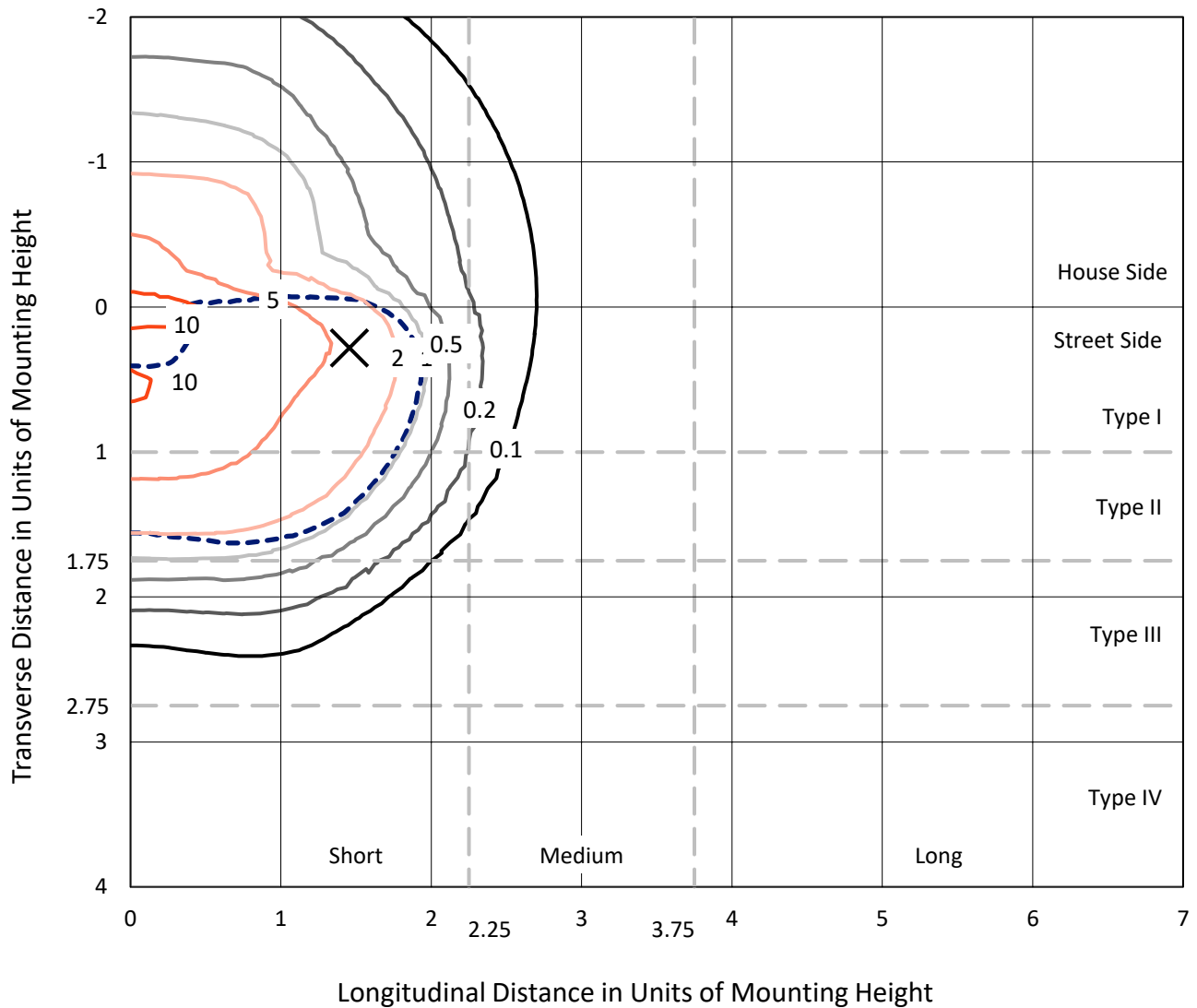
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

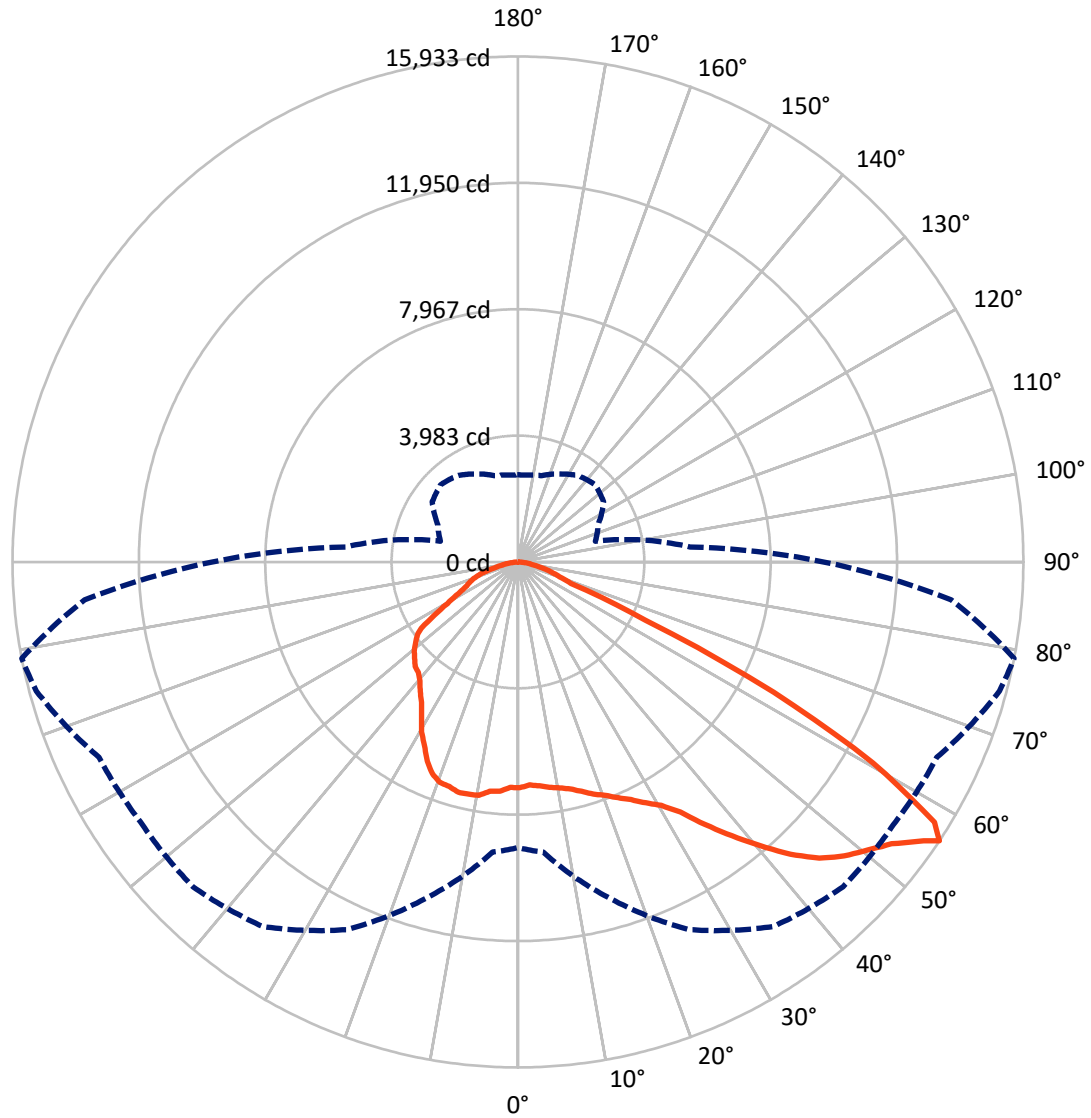
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8211.7 | 0.0 | 8211.7 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 19594.3 | 0.0 | 19594.3 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 27806.0 | 0.0 | 27806.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 646.8 | 2.3 |
| 10°-20° | 1770.2 | 6.4 |
| 20°-30° | 3028.5 | 10.9 |
| 30°-40° | 4641.6 | 16.7 |
| 40°-50° | 6273.0 | 22.6 |
| 50°-60° | 7204.8 | 25.9 |
| 60°-70° | 3284.2 | 11.8 |
| 70°-80° | 809.7 | 2.9 |
| 80°-90° | 147.2 | 0.5 |
| 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° | 27806.0 | 100.0 |
| 0°-180° | 27806.0 | 100.0 |

Coefficient of Utilization



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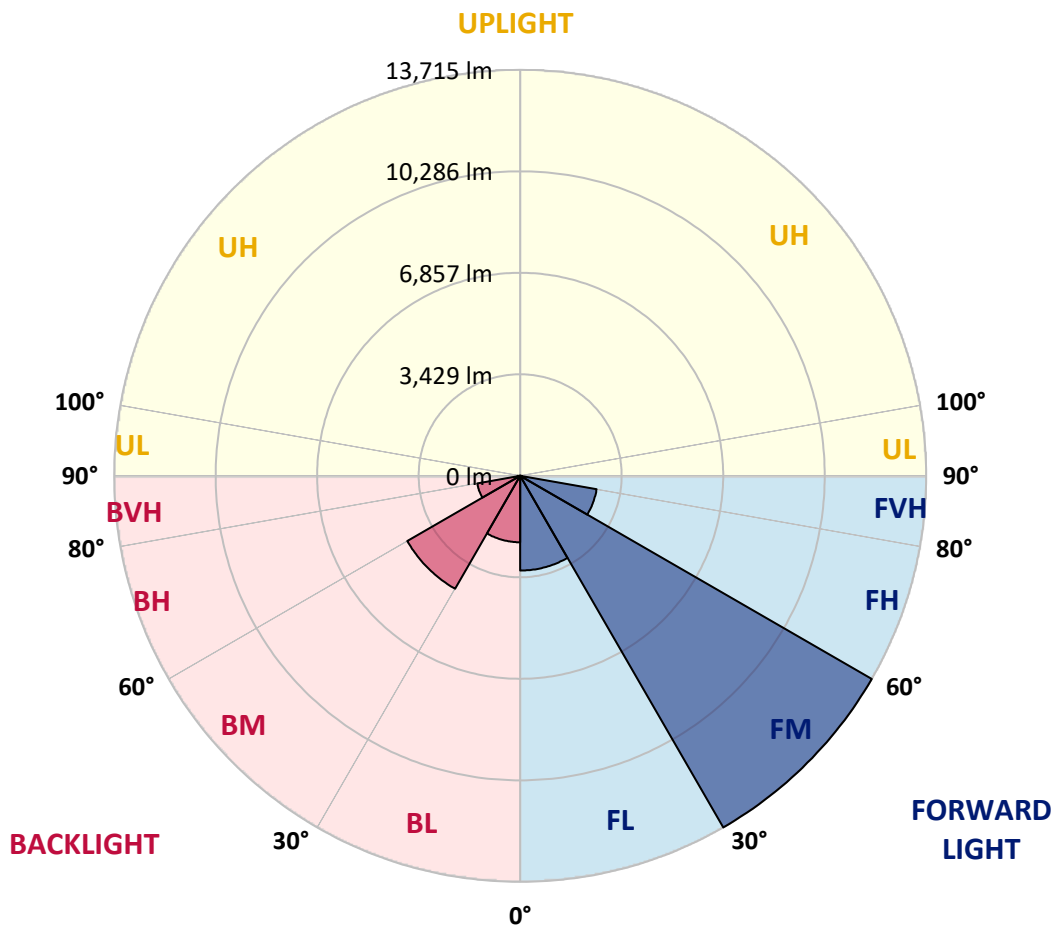
CATALOG NUMBER: GALN-SA7A-740-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3199.3 | 11.5 | | | |
| FM (30°-60°) | 13714.7 | 49.3 | | | |
| FH (60°-80°) | 2621.5 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 58.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2246.3 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 4404.7 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1472.4 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.4 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 |
| 2.5° | 6768.1 | 6750.8 | 6792.3 | 6823.5 | 6861.6 | 6910.1 | 6934.3 | 6948.2 | 7069.4 | 7038.3 | 7131.8 |
| 5° | 6622.6 | 6577.6 | 6608.8 | 6633.0 | 6698.8 | 6757.7 | 6823.5 | 6927.4 | 7038.3 | 7086.7 | 7201.0 |
| 7.5° | 6494.5 | 6470.2 | 6463.3 | 6480.6 | 6570.7 | 6646.9 | 6761.2 | 6913.6 | 7093.7 | 7173.3 | 7239.1 |
| 10° | 6283.2 | 6248.5 | 6300.5 | 6414.8 | 6439.0 | 6598.4 | 6730.0 | 6948.2 | 7104.1 | 7242.6 | 7436.6 |
| 12.5° | 6189.6 | 6155.0 | 6165.4 | 6231.2 | 6400.9 | 6553.3 | 6709.2 | 6955.1 | 7284.2 | 7339.6 | 7599.4 |
| 15° | 6338.6 | 6303.9 | 6314.3 | 6297.0 | 6459.8 | 6539.5 | 6785.4 | 7093.7 | 7408.9 | 7502.4 | 7779.5 |
| 17.5° | 6678.0 | 6681.5 | 6636.5 | 6598.4 | 6560.3 | 6730.0 | 6899.7 | 7176.8 | 7457.4 | 7692.9 | 7900.7 |
| 20° | 7325.7 | 7211.4 | 7121.4 | 6906.6 | 6847.7 | 6920.5 | 7135.2 | 7401.9 | 7654.8 | 7848.8 | 8084.3 |
| 22.5° | 7824.5 | 7834.9 | 7706.7 | 7353.5 | 7225.3 | 7256.5 | 7440.0 | 7658.3 | 7935.4 | 8073.9 | 8344.1 |
| 25° | 8548.4 | 8475.7 | 8337.1 | 8056.6 | 7769.1 | 7793.3 | 7928.4 | 8125.9 | 8202.1 | 8299.0 | 8593.5 |
| 27.5° | 9210.0 | 9230.8 | 8957.1 | 8693.9 | 8337.1 | 8267.9 | 8510.3 | 8545.0 | 8416.8 | 8600.4 | 8700.8 |
| 30° | 9882.0 | 9864.6 | 9684.5 | 9376.3 | 9026.4 | 9040.3 | 9147.7 | 8977.9 | 8801.3 | 8901.7 | 8971.0 |
| 32.5° | 10578.2 | 10380.7 | 10373.8 | 10096.7 | 9830.0 | 9701.8 | 9570.2 | 9653.4 | 9379.7 | 9400.5 | 9334.7 |
| 35° | 11135.8 | 11163.5 | 11004.2 | 10806.8 | 10675.1 | 10450.0 | 10089.8 | 10238.7 | 10186.8 | 10162.5 | 9878.5 |
| 37.5° | 11541.1 | 11433.7 | 11513.4 | 11447.6 | 11322.9 | 11042.3 | 10668.2 | 10810.2 | 10834.5 | 10952.2 | 10623.2 |
| 40° | 11873.6 | 11828.6 | 12039.8 | 12074.5 | 11987.9 | 11381.7 | 10709.8 | 11132.4 | 11496.0 | 11752.4 | 11361.0 |
| 42.5° | 12032.9 | 12129.9 | 12351.6 | 12618.3 | 12424.3 | 11776.6 | 10924.5 | 11378.3 | 12188.8 | 12594.0 | 12060.6 |
| 45° | 12247.7 | 12123.0 | 12452.0 | 12940.4 | 12943.9 | 12109.1 | 11132.4 | 11710.8 | 12729.1 | 13318.0 | 12538.6 |
| 47.5° | 12029.5 | 12091.8 | 12431.2 | 13051.2 | 13210.6 | 12459.0 | 11693.5 | 12181.9 | 13324.9 | 13847.9 | 12982.0 |
| 50° | 11541.1 | 11665.8 | 12285.8 | 12930.0 | 13411.5 | 12829.6 | 12337.7 | 12691.0 | 13875.6 | 14273.9 | 13054.7 |
| 52.5° | 11031.9 | 11101.2 | 12071.0 | 13023.5 | 13501.5 | 13307.6 | 13200.2 | 13394.2 | 14547.6 | 14755.4 | 13144.8 |
| 55° | 9646.4 | 9975.5 | 11361.0 | 12982.0 | 13941.4 | 14170.0 | 14086.9 | 14370.9 | 15309.6 | 15517.4 | 13636.6 |
| 56° | 9005.6 | 9178.8 | 10934.9 | 12788.0 | 14028.0 | 14485.2 | 14443.7 | 14571.8 | 15714.8 | 15933.1 | 13712.8 |
| 57.5° | 7821.1 | 7834.9 | 9324.3 | 11929.0 | 13702.4 | 14578.7 | 14537.2 | 14637.6 | 15635.2 | 15486.2 | 13044.3 |
| 60° | 4894.2 | 5109.0 | 6345.5 | 9175.4 | 11651.9 | 13525.8 | 13761.3 | 12954.3 | 13182.9 | 12867.7 | 10148.7 |
| 62.5° | 2535.4 | 2504.3 | 3325.2 | 5365.3 | 7734.5 | 9684.5 | 9902.7 | 9864.6 | 9511.3 | 9050.7 | 6629.5 |
| 65° | 1264.3 | 1271.2 | 1738.8 | 2656.7 | 3962.5 | 5070.9 | 5680.5 | 5746.3 | 4807.6 | 4423.2 | 3145.0 |
| 67.5° | 917.9 | 952.5 | 1250.4 | 1624.5 | 1866.9 | 2088.6 | 2559.7 | 2511.2 | 1901.6 | 1808.1 | 1676.4 |
| 70° | 713.5 | 744.7 | 1014.9 | 1240.0 | 1125.7 | 1125.7 | 1226.2 | 1267.7 | 1354.3 | 1392.4 | 1437.4 |
| 72.5° | 519.6 | 543.8 | 775.9 | 855.5 | 737.8 | 793.2 | 917.9 | 1014.9 | 1104.9 | 1118.8 | 1170.7 |
| 75° | 356.8 | 377.5 | 509.2 | 471.1 | 443.4 | 547.3 | 672.0 | 762.0 | 827.8 | 862.5 | 893.6 |
| 77.5° | 232.1 | 239.0 | 291.0 | 245.9 | 284.0 | 353.3 | 436.4 | 512.6 | 578.4 | 606.1 | 613.1 |
| 80° | 103.9 | 114.3 | 124.7 | 155.9 | 197.4 | 252.9 | 311.7 | 374.1 | 415.6 | 426.0 | 446.8 |
| 82.5° | 58.9 | 58.9 | 76.2 | 110.8 | 145.5 | 183.6 | 225.1 | 270.2 | 318.7 | 329.1 | 325.6 |
| 85° | 31.2 | 31.2 | 45.0 | 65.8 | 90.1 | 107.4 | 103.9 | 107.4 | 114.3 | 131.6 | 128.2 |
| 87.5° | 10.4 | 10.4 | 13.9 | 13.9 | 17.3 | 20.8 | 17.3 | 24.2 | 31.2 | 31.2 | 31.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: GALN-SA7A-740-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 | 7114.5 |
| 2.5° | 7104.1 | 7135.2 | 7093.7 | 7183.7 | 7183.7 | 7166.4 | 7079.8 | 7107.5 | 7128.3 | 7128.3 | 7145.6 |
| 5° | 7239.1 | 7228.8 | 7256.5 | 7149.1 | 7083.3 | 7059.0 | 6917.0 | 6847.7 | 6788.9 | 6785.4 | 6733.4 |
| 7.5° | 7315.3 | 7287.6 | 7277.2 | 7197.6 | 6906.6 | 6730.0 | 6425.2 | 6248.5 | 6210.4 | 6075.3 | 6127.3 |
| 10° | 7436.6 | 7488.5 | 7436.6 | 7003.6 | 6598.4 | 6193.1 | 5895.2 | 5621.6 | 5514.2 | 5427.6 | 5375.7 |
| 12.5° | 7686.0 | 7661.7 | 7360.4 | 6775.0 | 6207.0 | 5725.5 | 5282.2 | 4994.7 | 4887.3 | 4811.1 | 4804.2 |
| 15° | 7897.3 | 7776.0 | 7315.3 | 6414.8 | 5597.4 | 5084.7 | 4721.0 | 4516.7 | 4468.2 | 4475.1 | 4506.3 |
| 17.5° | 7970.0 | 7886.9 | 7079.8 | 6040.7 | 5143.6 | 4540.9 | 4371.2 | 4340.0 | 4385.1 | 4437.0 | 4450.9 |
| 20° | 8084.3 | 7952.7 | 6982.8 | 5531.5 | 4582.5 | 4201.5 | 4191.1 | 4301.9 | 4385.1 | 4461.3 | 4471.6 |
| 22.5° | 8323.3 | 7990.8 | 6667.6 | 5050.1 | 4198.0 | 4101.0 | 4201.5 | 4295.0 | 4423.2 | 4485.5 | 4430.1 |
| 25° | 8392.6 | 7907.6 | 6224.3 | 4471.6 | 3955.6 | 4038.7 | 4146.1 | 4274.2 | 4364.3 | 4398.9 | 4423.2 |
| 27.5° | 8451.4 | 7779.5 | 5625.1 | 4087.2 | 3879.4 | 4035.2 | 4146.1 | 4253.4 | 4301.9 | 4333.1 | 4360.8 |
| 30° | 8617.7 | 7741.4 | 5105.5 | 3830.9 | 3830.9 | 3965.9 | 4108.0 | 4135.7 | 4201.5 | 4239.6 | 4288.1 |
| 32.5° | 8700.8 | 7478.1 | 4572.1 | 3668.1 | 3782.4 | 4000.6 | 4011.0 | 4062.9 | 4066.4 | 4097.6 | 4045.6 |
| 35° | 8919.0 | 7291.1 | 4076.8 | 3550.3 | 3803.2 | 3965.9 | 4017.9 | 3986.7 | 3817.0 | 3733.9 | 3751.2 |
| 37.5° | 9078.4 | 7197.6 | 3720.0 | 3536.4 | 3806.6 | 4004.0 | 4031.8 | 3796.2 | 3619.6 | 3481.0 | 3515.7 |
| 40° | 9507.9 | 6965.5 | 3449.9 | 3512.2 | 3837.8 | 4045.6 | 3969.4 | 3713.1 | 3394.4 | 3252.4 | 3228.2 |
| 42.5° | 9836.9 | 6799.3 | 3280.1 | 3484.5 | 3862.0 | 4104.5 | 3938.2 | 3546.8 | 3221.2 | 3089.6 | 3124.3 |
| 45° | 10217.9 | 6761.2 | 3190.1 | 3491.4 | 3903.6 | 4135.7 | 3900.1 | 3418.7 | 3072.3 | 3020.4 | 3010.0 |
| 47.5° | 10353.0 | 6487.5 | 3093.1 | 3432.5 | 3893.2 | 4125.3 | 3772.0 | 3321.7 | 3016.9 | 3023.8 | 3051.5 |
| 50° | 10127.9 | 6207.0 | 3020.4 | 3311.3 | 3823.9 | 4031.8 | 3571.1 | 3193.5 | 2985.7 | 3072.3 | 3120.8 |
| 52.5° | 9840.4 | 5919.5 | 2871.4 | 3148.5 | 3681.9 | 3886.3 | 3477.6 | 3186.6 | 2954.5 | 2926.8 | 2937.2 |
| 55° | 9927.0 | 5683.9 | 2663.6 | 2926.8 | 3453.3 | 3616.1 | 3373.7 | 3120.8 | 2878.3 | 2774.4 | 2809.1 |
| 56° | 9646.4 | 5441.5 | 2528.5 | 2788.3 | 3297.4 | 3442.9 | 3321.7 | 3061.9 | 2816.0 | 2746.7 | 2746.7 |
| 57.5° | 8853.2 | 4627.5 | 2351.9 | 2566.6 | 2968.4 | 3141.6 | 3221.2 | 3027.3 | 2746.7 | 2625.5 | 2629.0 |
| 60° | 6529.1 | 3290.5 | 2109.4 | 2261.8 | 2459.2 | 2597.8 | 2968.4 | 2930.3 | 2573.5 | 2490.4 | 2459.2 |
| 62.5° | 4024.8 | 2403.8 | 1936.2 | 1995.1 | 2095.5 | 2209.8 | 2590.9 | 2653.2 | 2390.0 | 2299.9 | 2279.1 |
| 65° | 2254.9 | 1839.2 | 1804.6 | 1828.8 | 1877.3 | 1936.2 | 2151.0 | 2289.5 | 2109.4 | 1970.8 | 1963.9 |
| 67.5° | 1648.7 | 1645.3 | 1673.0 | 1693.8 | 1714.5 | 1714.5 | 1766.5 | 1821.9 | 1797.7 | 1686.8 | 1676.4 |
| 70° | 1465.1 | 1475.5 | 1496.3 | 1499.8 | 1506.7 | 1482.5 | 1440.9 | 1423.6 | 1451.3 | 1382.0 | 1368.2 |
| 72.5° | 1208.8 | 1243.5 | 1267.7 | 1271.2 | 1233.1 | 1201.9 | 1146.5 | 1087.6 | 1066.8 | 1053.0 | 1049.5 |
| 75° | 928.3 | 952.5 | 962.9 | 959.4 | 945.6 | 900.6 | 834.8 | 775.9 | 737.8 | 696.2 | 717.0 |
| 77.5° | 626.9 | 661.6 | 678.9 | 678.9 | 658.1 | 588.8 | 557.7 | 512.6 | 474.5 | 429.5 | 436.4 |
| 80° | 439.9 | 464.1 | 491.8 | 488.4 | 453.7 | 419.1 | 374.1 | 332.5 | 301.3 | 266.7 | 263.2 |
| 82.5° | 329.1 | 342.9 | 356.8 | 349.8 | 325.6 | 291.0 | 259.8 | 221.7 | 187.0 | 162.8 | 162.8 |
| 85° | 117.8 | 128.2 | 155.9 | 162.8 | 176.6 | 176.6 | 148.9 | 124.7 | 100.4 | 83.1 | 83.1 |
| 87.5° | 34.6 | 34.6 | 38.1 | 38.1 | 34.6 | 38.1 | 31.2 | 34.6 | 38.1 | 24.2 | 24.2 |
| 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)