

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: P532816

Luminaire Tested: **GALN-SA8B-722-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-722-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28332 lumens
Efficiency: N/A
Efficacy: 87.2 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

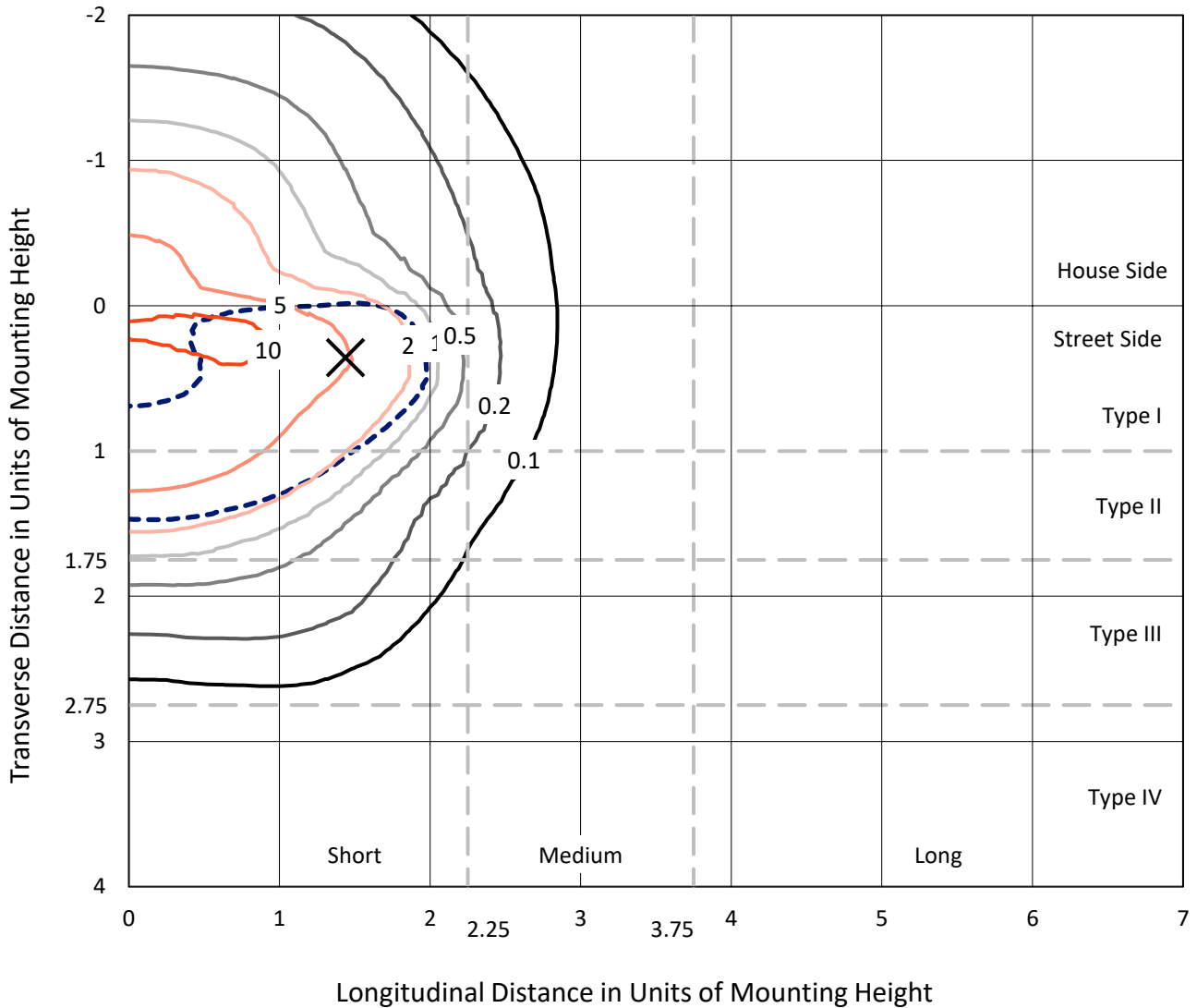
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

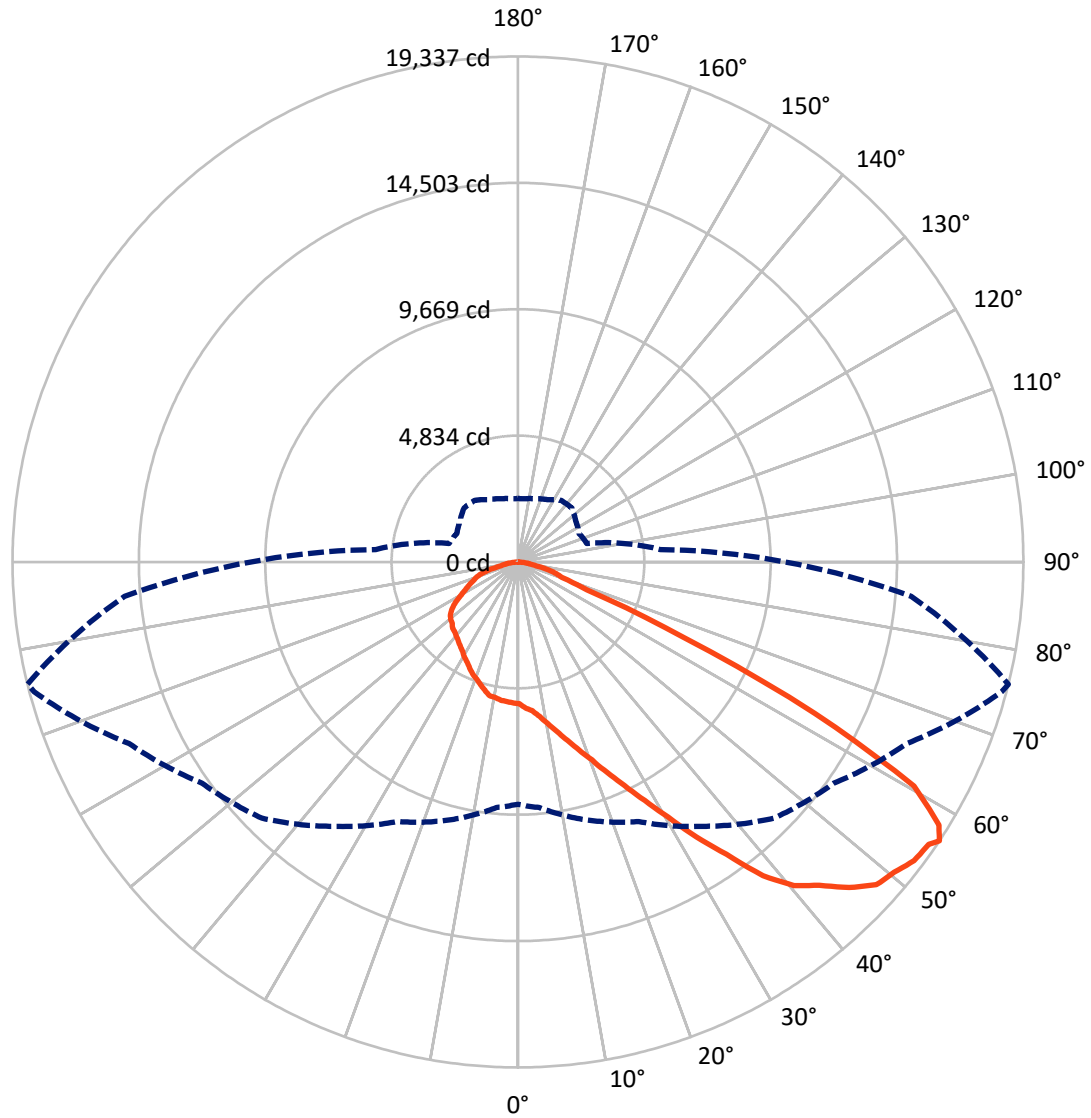
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7617.6 | 0.0 | 7617.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 20714.4 | 0.0 | 20714.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 28332.0 | 0.0 | 28332.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 537.6 | 1.9 |
| 10°-20° | 1688.7 | 6.0 |
| 20°-30° | 2953.4 | 10.4 |
| 30°-40° | 4624.2 | 16.3 |
| 40°-50° | 6726.9 | 23.7 |
| 50°-60° | 7393.3 | 26.1 |
| 60°-70° | 3300.0 | 11.6 |
| 70°-80° | 953.2 | 3.4 |
| 80°-90° | 154.6 | 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° | 28332.0 | 100.0 |
| 0°-180° | 28332.0 | 100.0 |

Coefficient of Utilization



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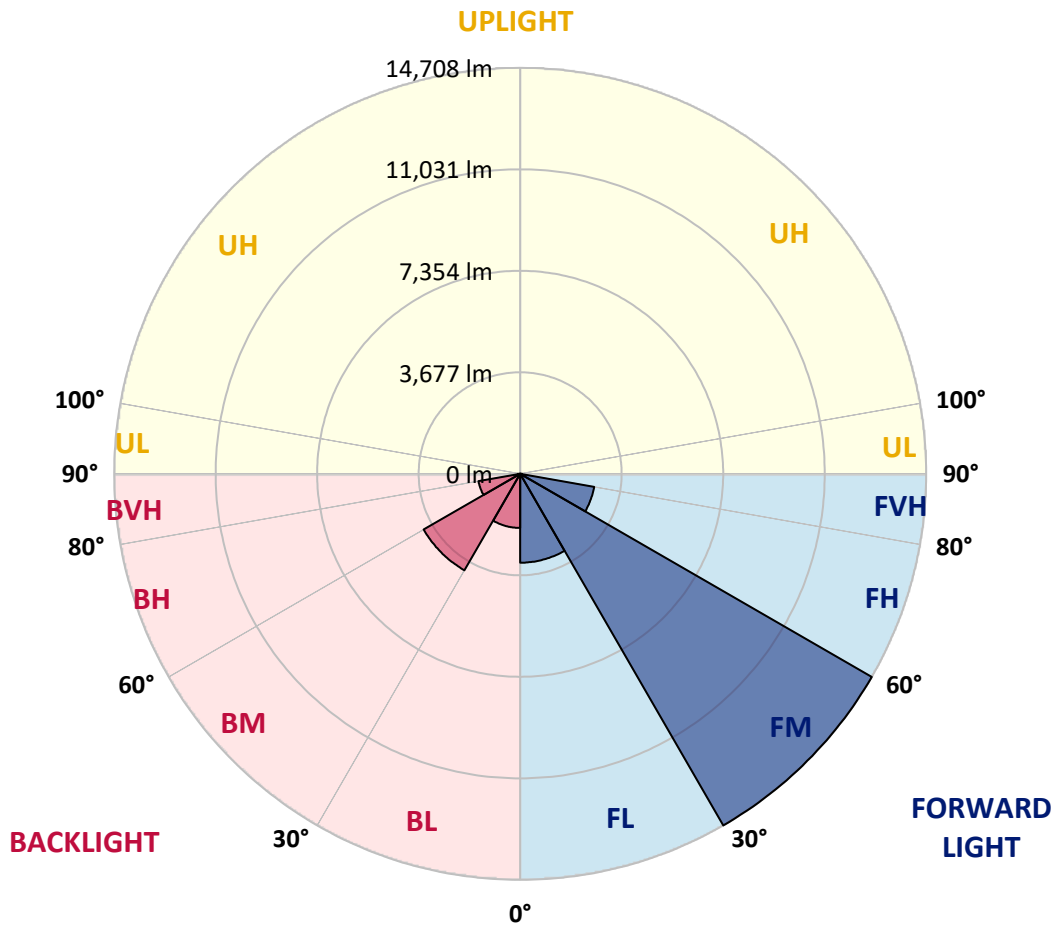
CATALOG NUMBER: GALN-SA8B-722-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3219.6 | 11.4 | | | |
| FM (30°-60°) | 14707.7 | 51.9 | | | |
| FH (60°-80°) | 2720.5 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 66.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1960.2 | 6.9 | B3/2500 | | |
| BM (30°-60°) | 4036.7 | 14.2 | B3/5000 | | |
| BH (60°-80°) | 1532.7 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 88.1 | 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° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 |
| 2.5° | 5971.9 | 5876.4 | 5869.0 | 5843.3 | 5858.0 | 5791.9 | 5722.1 | 5630.3 | 5534.8 | 5593.6 | 5454.0 |
| 5° | 6390.6 | 6262.0 | 6313.4 | 6225.3 | 6236.3 | 6148.2 | 6004.9 | 5898.4 | 5780.9 | 5711.1 | 5611.9 |
| 7.5° | 6537.5 | 6548.5 | 6585.2 | 6570.5 | 6497.1 | 6497.1 | 6401.6 | 6214.3 | 6008.6 | 5968.2 | 5802.9 |
| 10° | 6735.8 | 6739.5 | 6699.1 | 6710.1 | 6812.9 | 6765.2 | 6680.7 | 6599.9 | 6335.5 | 6287.7 | 5993.9 |
| 12.5° | 6805.6 | 6739.5 | 6805.6 | 6864.4 | 6985.6 | 7051.7 | 7033.3 | 6974.5 | 6691.7 | 6658.7 | 6229.0 |
| 15° | 6816.6 | 6776.2 | 6831.3 | 6963.5 | 7070.0 | 7349.2 | 7488.7 | 7448.3 | 7073.7 | 7077.4 | 6493.4 |
| 17.5° | 6765.2 | 6820.3 | 6842.3 | 6956.2 | 7202.2 | 7463.0 | 7867.0 | 7922.1 | 7613.6 | 7565.8 | 6827.6 |
| 20° | 6835.0 | 6794.6 | 6824.0 | 6926.8 | 7253.7 | 7661.3 | 8190.2 | 8553.8 | 8120.4 | 8087.4 | 7172.9 |
| 22.5° | 7103.1 | 7048.0 | 7040.6 | 7106.8 | 7341.8 | 7764.2 | 8531.8 | 9185.5 | 8737.4 | 8755.8 | 7602.6 |
| 25° | 7312.4 | 7341.8 | 7316.1 | 7312.4 | 7459.3 | 7918.4 | 8983.5 | 9938.4 | 9574.8 | 9468.3 | 8109.4 |
| 27.5° | 7672.4 | 7742.1 | 7690.7 | 7760.5 | 7727.4 | 8149.8 | 9306.7 | 10772.1 | 10478.3 | 10335.1 | 8568.5 |
| 30° | 8171.8 | 8208.6 | 8160.8 | 8160.8 | 8061.7 | 8473.0 | 9600.5 | 11642.6 | 11521.4 | 11326.7 | 9108.4 |
| 32.5° | 8829.3 | 8884.4 | 8788.9 | 8733.8 | 8719.1 | 8954.1 | 10129.4 | 12502.0 | 12707.7 | 12542.4 | 9824.6 |
| 35° | 9699.7 | 9666.7 | 9552.8 | 9501.4 | 9303.1 | 9692.4 | 10915.4 | 13490.0 | 14029.9 | 13736.0 | 10691.3 |
| 37.5° | 10467.3 | 10415.9 | 10408.5 | 10122.1 | 10169.8 | 10489.3 | 11583.8 | 14239.2 | 15311.7 | 15227.2 | 11605.9 |
| 40° | 11183.5 | 11231.2 | 11308.4 | 11146.8 | 11073.3 | 11425.9 | 12362.4 | 14812.2 | 16307.0 | 16273.9 | 12311.0 |
| 42.5° | 11951.1 | 11907.0 | 12042.9 | 11907.0 | 11796.8 | 12296.3 | 13207.2 | 15208.8 | 17181.1 | 16909.3 | 13049.2 |
| 45° | 13063.9 | 12924.4 | 12972.1 | 12983.1 | 12902.3 | 13086.0 | 13556.1 | 15495.3 | 17794.4 | 17765.0 | 13589.1 |
| 47.5° | 13993.1 | 13996.8 | 13916.0 | 13853.6 | 13607.5 | 13791.1 | 13945.4 | 15675.3 | 18499.6 | 18451.8 | 13798.5 |
| 50° | 14338.4 | 14290.6 | 14525.7 | 14661.6 | 14676.3 | 14301.7 | 14250.2 | 15774.4 | 18870.5 | 18661.2 | 14007.8 |
| 52.5° | 13097.0 | 13141.1 | 13512.0 | 14320.0 | 14786.5 | 14826.9 | 14606.5 | 15980.1 | 19021.1 | 18977.0 | 14176.8 |
| 55° | 10540.8 | 10753.8 | 11363.5 | 12296.3 | 13401.8 | 14617.5 | 14992.1 | 16193.1 | 19101.9 | 19065.2 | 14926.0 |
| 56° | 9266.3 | 9431.6 | 10224.9 | 10955.8 | 12344.1 | 13857.2 | 14749.7 | 16420.8 | 19164.4 | 19337.0 | 15102.3 |
| 57.5° | 7459.3 | 7650.3 | 8219.6 | 9049.6 | 10687.7 | 12410.2 | 14081.3 | 16141.7 | 18922.0 | 18988.1 | 15230.9 |
| 60° | 4664.4 | 4682.7 | 5365.9 | 5913.1 | 7066.4 | 8748.5 | 10746.4 | 14044.6 | 17511.6 | 17416.1 | 13681.0 |
| 62.5° | 3059.4 | 3063.1 | 3683.8 | 4131.8 | 4657.0 | 5042.7 | 6324.5 | 9314.1 | 12920.7 | 12751.8 | 9740.1 |
| 65° | 2148.6 | 2196.3 | 2677.4 | 3276.1 | 3489.1 | 3287.1 | 3246.7 | 4910.5 | 7216.9 | 6974.5 | 5233.7 |
| 67.5° | 1571.9 | 1575.6 | 2001.6 | 2644.4 | 2952.9 | 2501.1 | 2031.0 | 2398.3 | 2857.4 | 2850.0 | 2424.0 |
| 70° | 1039.4 | 1083.5 | 1410.3 | 1975.9 | 2328.5 | 2009.0 | 1660.1 | 1715.2 | 1818.0 | 1818.0 | 1803.3 |
| 72.5° | 606.0 | 646.4 | 863.1 | 1252.4 | 1307.5 | 1256.1 | 1314.8 | 1469.1 | 1535.2 | 1531.5 | 1513.2 |
| 75° | 345.2 | 363.6 | 411.3 | 521.5 | 650.1 | 767.6 | 965.9 | 1112.8 | 1178.9 | 1219.3 | 1171.6 |
| 77.5° | 202.0 | 213.0 | 242.4 | 297.5 | 337.9 | 415.0 | 525.2 | 628.0 | 716.2 | 705.2 | 712.5 |
| 80° | 106.5 | 106.5 | 135.9 | 176.3 | 235.1 | 293.8 | 348.9 | 407.7 | 455.4 | 466.4 | 477.5 |
| 82.5° | 62.4 | 66.1 | 88.1 | 128.5 | 168.9 | 209.3 | 268.1 | 308.5 | 352.6 | 356.3 | 363.6 |
| 85° | 33.1 | 36.7 | 55.1 | 84.5 | 113.9 | 128.5 | 132.2 | 124.9 | 135.9 | 128.5 | 146.9 |
| 87.5° | 11.0 | 11.0 | 18.4 | 14.7 | 14.7 | 18.4 | 22.0 | 22.0 | 29.4 | 29.4 | 29.4 |
| 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-SA8B-722-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 | 5421.0 |
| 2.5° | 5450.3 | 5450.3 | 5387.9 | 5270.4 | 5252.0 | 5204.3 | 5160.2 | 5156.5 | 5123.5 | 5094.1 | 5079.4 |
| 5° | 5553.2 | 5439.3 | 5347.5 | 5241.0 | 5116.1 | 5057.4 | 4991.3 | 4917.8 | 4888.4 | 4917.8 | 4914.1 |
| 7.5° | 5670.7 | 5575.2 | 5299.8 | 5101.4 | 4958.2 | 4899.4 | 4826.0 | 4748.9 | 4756.2 | 4756.2 | 4704.8 |
| 10° | 5784.6 | 5656.0 | 5215.3 | 4961.9 | 4752.5 | 4708.5 | 4668.1 | 4697.4 | 4734.2 | 4741.5 | 4708.5 |
| 12.5° | 5975.5 | 5685.4 | 5174.9 | 4822.3 | 4690.1 | 4594.6 | 4620.3 | 4701.1 | 4778.2 | 4756.2 | 4781.9 |
| 15° | 6118.8 | 5711.1 | 4991.3 | 4679.1 | 4513.8 | 4557.9 | 4649.7 | 4704.8 | 4833.3 | 4818.6 | 4844.3 |
| 17.5° | 6258.3 | 5725.8 | 4811.3 | 4488.1 | 4418.3 | 4539.5 | 4609.3 | 4767.2 | 4807.6 | 4895.8 | 4928.8 |
| 20° | 6544.8 | 5755.2 | 4627.7 | 4370.6 | 4348.5 | 4488.1 | 4609.3 | 4682.7 | 4770.9 | 4848.0 | 4848.0 |
| 22.5° | 6691.7 | 5740.5 | 4506.5 | 4216.3 | 4286.1 | 4374.2 | 4484.4 | 4609.3 | 4609.3 | 4682.7 | 4686.4 |
| 25° | 6875.4 | 5681.7 | 4315.5 | 4142.9 | 4194.3 | 4278.7 | 4403.6 | 4359.5 | 4407.3 | 4407.3 | 4466.1 |
| 27.5° | 7084.7 | 5556.9 | 4150.2 | 4010.6 | 4113.5 | 4205.3 | 4223.7 | 4194.3 | 4139.2 | 4131.8 | 4109.8 |
| 30° | 7253.7 | 5402.6 | 4029.0 | 3966.6 | 4051.0 | 4102.5 | 4043.7 | 3981.3 | 3885.8 | 3878.4 | 3827.0 |
| 32.5° | 7485.0 | 5211.6 | 3878.4 | 3856.4 | 3951.9 | 3955.5 | 3937.2 | 3841.7 | 3702.1 | 3643.4 | 3584.6 |
| 35° | 7874.4 | 5101.4 | 3764.6 | 3797.6 | 3827.0 | 3816.0 | 3782.9 | 3680.1 | 3540.5 | 3514.8 | 3492.8 |
| 37.5° | 8160.8 | 5020.6 | 3647.0 | 3687.4 | 3713.1 | 3727.8 | 3628.7 | 3514.8 | 3518.5 | 3467.1 | 3452.4 |
| 40° | 8484.0 | 4969.2 | 3551.5 | 3569.9 | 3573.6 | 3621.3 | 3500.1 | 3445.0 | 3470.7 | 3437.7 | 3459.7 |
| 42.5° | 8899.0 | 4983.9 | 3452.4 | 3437.7 | 3507.5 | 3489.1 | 3430.3 | 3356.9 | 3371.6 | 3272.4 | 3287.1 |
| 45° | 9119.4 | 5083.1 | 3393.6 | 3327.5 | 3404.6 | 3401.0 | 3323.8 | 3254.0 | 3165.9 | 2974.9 | 2982.3 |
| 47.5° | 9266.3 | 5108.8 | 3254.0 | 3210.0 | 3290.8 | 3338.5 | 3250.4 | 3088.8 | 2963.9 | 2828.0 | 2795.0 |
| 50° | 9416.9 | 5156.5 | 3187.9 | 3096.1 | 3129.2 | 3243.0 | 3132.8 | 2978.6 | 2857.4 | 2736.2 | 2754.6 |
| 52.5° | 9549.1 | 5248.3 | 3059.4 | 2923.5 | 2982.3 | 3107.1 | 3048.4 | 2861.1 | 2728.8 | 2629.7 | 2600.3 |
| 55° | 10136.8 | 5454.0 | 2842.7 | 2666.4 | 2806.0 | 2963.9 | 2930.8 | 2703.1 | 2559.9 | 2508.5 | 2501.1 |
| 56° | 10228.6 | 5461.4 | 2728.8 | 2578.3 | 2706.8 | 2916.2 | 2875.8 | 2633.4 | 2504.8 | 2424.0 | 2427.7 |
| 57.5° | 10243.3 | 5373.2 | 2567.2 | 2497.5 | 2607.6 | 2846.4 | 2795.0 | 2578.3 | 2402.0 | 2328.5 | 2306.5 |
| 60° | 9012.9 | 4194.3 | 2365.2 | 2321.2 | 2449.7 | 2633.4 | 2615.0 | 2427.7 | 2229.4 | 2144.9 | 2185.3 |
| 62.5° | 6144.5 | 3074.1 | 2207.3 | 2200.0 | 2266.1 | 2446.0 | 2398.3 | 2229.4 | 2064.1 | 2009.0 | 1983.3 |
| 65° | 3577.2 | 2332.2 | 2053.1 | 2023.7 | 2078.8 | 2174.3 | 2207.3 | 2031.0 | 1858.4 | 1821.7 | 1810.7 |
| 67.5° | 2111.8 | 1928.2 | 1854.7 | 1807.0 | 1788.6 | 1847.4 | 1873.1 | 1770.3 | 1597.6 | 1546.2 | 1590.3 |
| 70° | 1766.6 | 1715.2 | 1718.8 | 1638.0 | 1594.0 | 1553.6 | 1531.5 | 1439.7 | 1296.5 | 1230.4 | 1212.0 |
| 72.5° | 1524.2 | 1502.2 | 1487.5 | 1414.0 | 1373.6 | 1281.8 | 1186.3 | 1094.5 | 988.0 | 932.9 | 936.5 |
| 75° | 1164.3 | 1156.9 | 1164.3 | 1127.5 | 1057.7 | 984.3 | 896.1 | 778.6 | 697.8 | 628.0 | 642.7 |
| 77.5° | 694.1 | 716.2 | 727.2 | 712.5 | 683.1 | 617.0 | 561.9 | 484.8 | 407.7 | 352.6 | 345.2 |
| 80° | 477.5 | 495.8 | 514.2 | 495.8 | 466.4 | 418.7 | 359.9 | 301.2 | 246.1 | 216.7 | 209.3 |
| 82.5° | 363.6 | 382.0 | 393.0 | 374.6 | 337.9 | 286.5 | 246.1 | 205.7 | 161.6 | 132.2 | 124.9 |
| 85° | 132.2 | 150.6 | 146.9 | 176.3 | 191.0 | 183.6 | 157.9 | 121.2 | 91.8 | 66.1 | 62.4 |
| 87.5° | 36.7 | 33.1 | 36.7 | 36.7 | 36.7 | 33.1 | 29.4 | 29.4 | 29.4 | 18.4 | 14.7 |
| 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)