

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: P532664

Luminaire Tested: **GALN-SA8A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29329 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

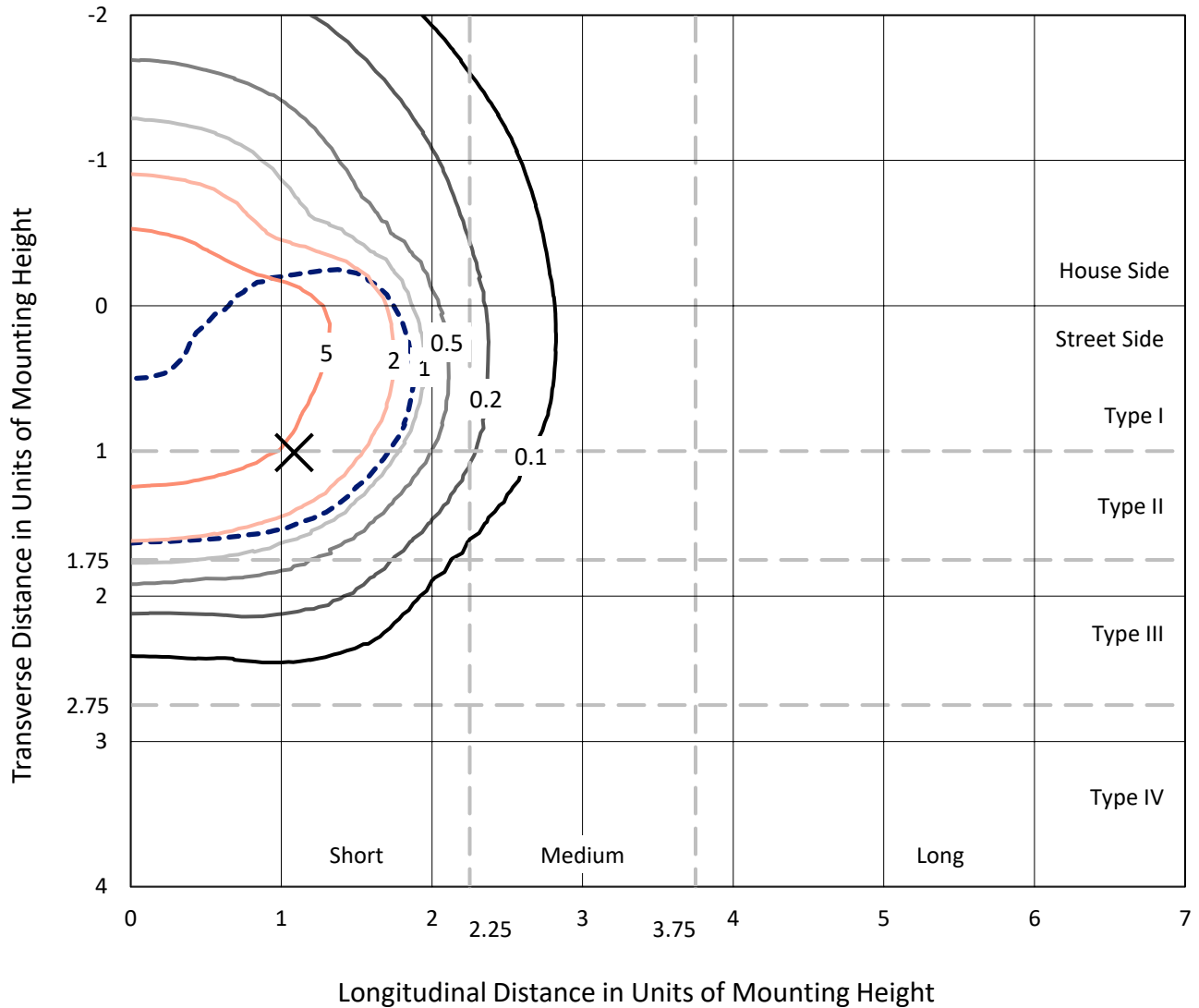
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

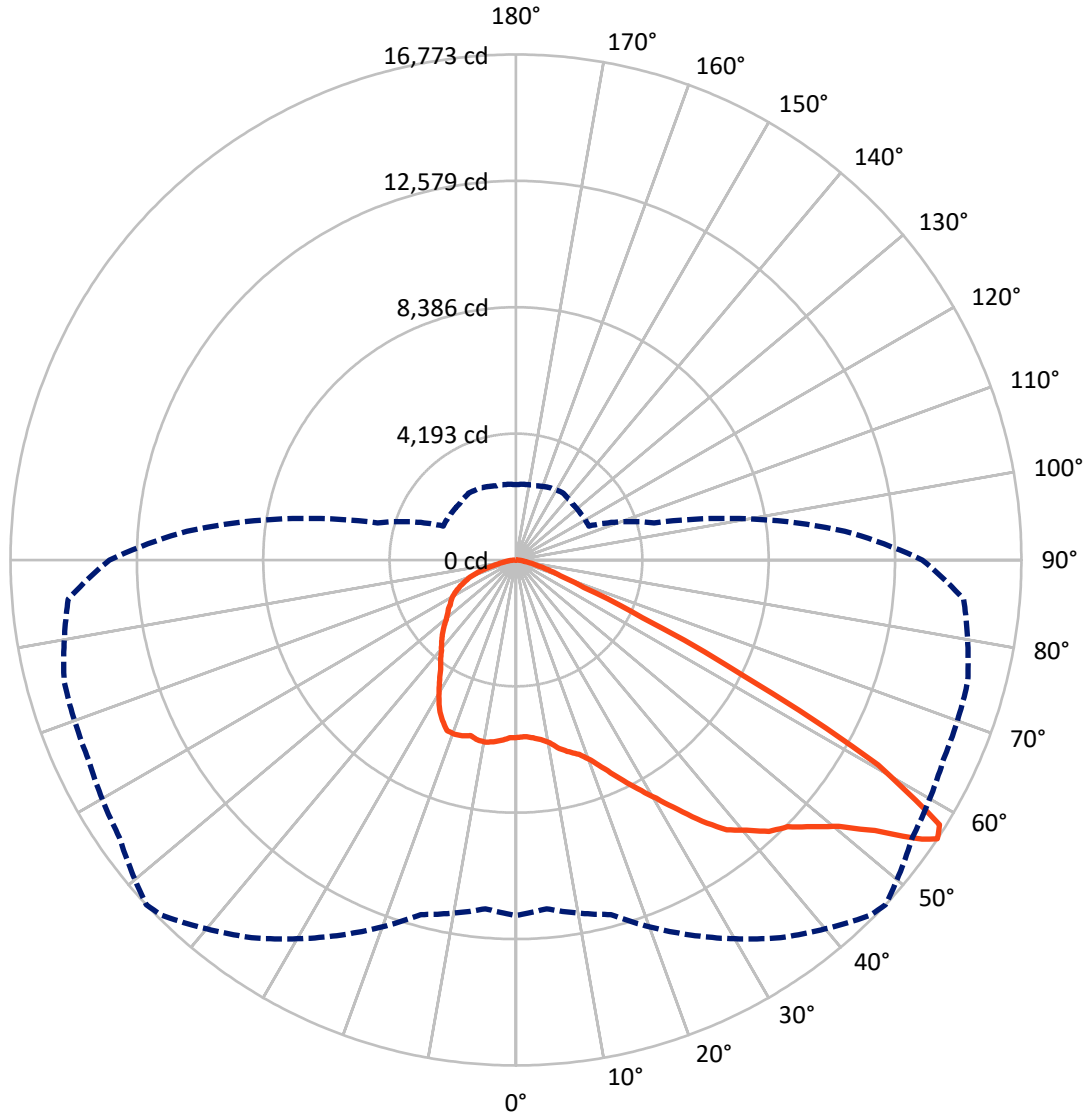
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9294.0 | 0.0 | 9294.0 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 20035.0 | 0.0 | 20035.0 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 29329.0 | 0.0 | 29329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 574.0 | 2.0 |
| 10°-20° | 1810.8 | 6.2 |
| 20°-30° | 3201.0 | 10.9 |
| 30°-40° | 4807.8 | 16.4 |
| 40°-50° | 6598.2 | 22.5 |
| 50°-60° | 7860.9 | 26.8 |
| 60°-70° | 3364.0 | 11.5 |
| 70°-80° | 952.0 | 3.2 |
| 80°-90° | 160.2 | 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° | 29329.0 | 100.0 |
| 0°-180° | 29329.0 | 100.0 |



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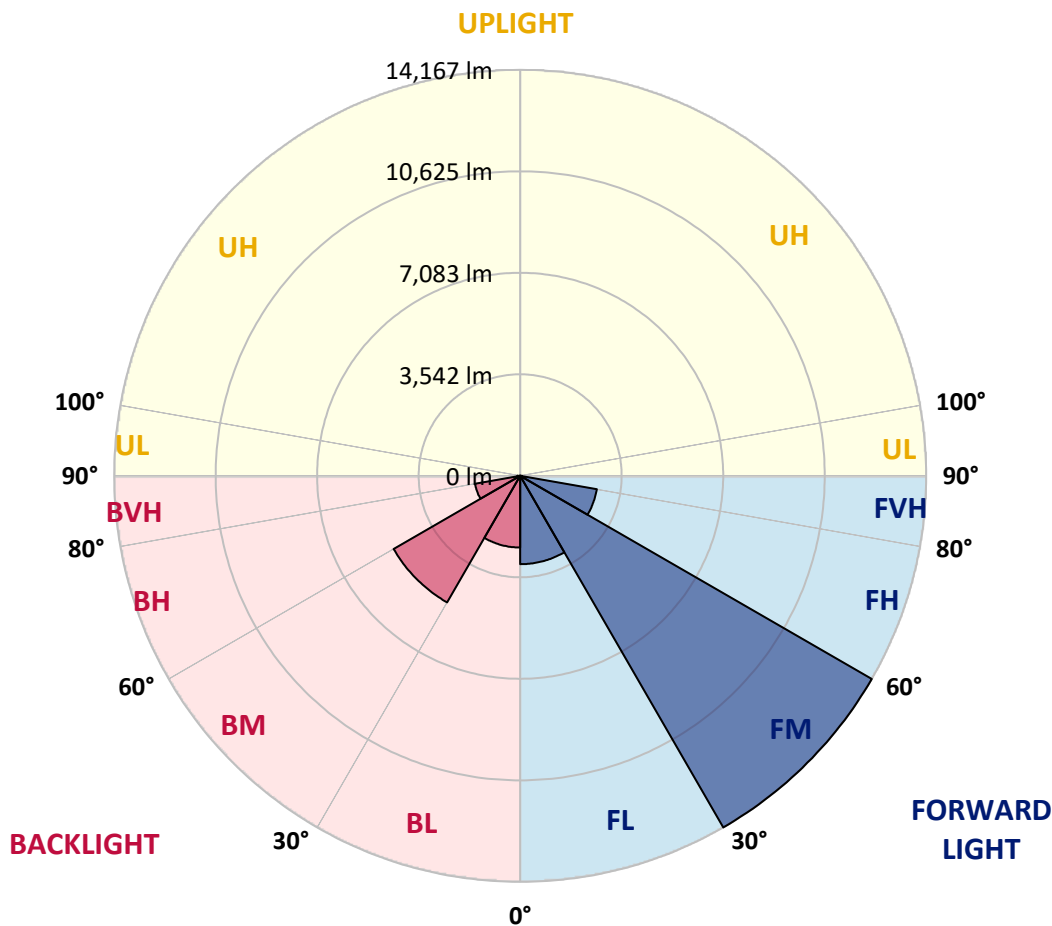
CATALOG NUMBER: GALN-SA8A-735-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3083.5 | 10.5 | | | |
| FM (30°-60°) | 14166.6 | 48.3 | | | |
| FH (60°-80°) | 2716.9 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 68.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2502.3 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 5100.4 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 1599.1 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 92.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 |
| 2.5° | 5868.9 | 5857.6 | 5850.2 | 5910.0 | 5887.6 | 5891.3 | 5868.9 | 5891.3 | 5906.3 | 5872.6 | 5921.2 |
| 5° | 5857.6 | 5891.3 | 5861.4 | 5880.1 | 5928.7 | 5913.7 | 5928.7 | 5973.6 | 5962.4 | 5951.2 | 5936.2 |
| 7.5° | 5962.4 | 5966.1 | 5988.6 | 5996.0 | 6011.0 | 5996.0 | 6018.5 | 6059.6 | 6048.4 | 5984.8 | 5992.3 |
| 10° | 6112.0 | 6119.5 | 6123.2 | 6164.4 | 6190.5 | 6194.3 | 6168.1 | 6130.7 | 6127.0 | 6213.0 | 6153.1 |
| 12.5° | 6284.1 | 6265.4 | 6310.2 | 6325.2 | 6355.1 | 6388.8 | 6422.5 | 6343.9 | 6392.5 | 6396.3 | 6325.2 |
| 15° | 6534.7 | 6553.4 | 6501.0 | 6501.0 | 6512.2 | 6516.0 | 6609.5 | 6572.1 | 6564.6 | 6523.5 | 6553.4 |
| 17.5° | 6908.7 | 6781.5 | 6777.8 | 6725.4 | 6718.0 | 6747.9 | 6781.5 | 6811.5 | 6912.5 | 6830.2 | 6669.3 |
| 20° | 7181.8 | 7211.7 | 7103.2 | 7039.6 | 7050.9 | 7118.2 | 7084.5 | 7219.2 | 7290.3 | 7155.6 | 6998.5 |
| 22.5° | 7664.3 | 7563.3 | 7589.5 | 7447.4 | 7458.6 | 7529.6 | 7525.9 | 7664.3 | 7705.5 | 7492.2 | 7264.1 |
| 25° | 7989.7 | 7963.5 | 7986.0 | 7873.8 | 7888.7 | 7944.8 | 8034.6 | 8262.8 | 8195.5 | 7959.8 | 7432.4 |
| 27.5° | 8464.8 | 8412.4 | 8393.7 | 8352.6 | 8337.6 | 8487.2 | 8592.0 | 8835.1 | 8786.5 | 8442.3 | 7731.6 |
| 30° | 8951.0 | 8917.4 | 8936.1 | 8767.8 | 8827.6 | 9145.5 | 9175.5 | 9508.4 | 9485.9 | 8880.0 | 8064.5 |
| 32.5° | 9287.7 | 9306.4 | 9340.1 | 9246.5 | 9512.1 | 9766.5 | 9867.5 | 10245.3 | 10264.0 | 9631.8 | 8707.9 |
| 35° | 9830.1 | 9766.5 | 9785.2 | 9893.7 | 10017.1 | 10480.9 | 10645.5 | 10896.1 | 11053.2 | 10421.1 | 9325.1 |
| 37.5° | 10170.4 | 10237.8 | 10159.2 | 10331.3 | 10653.0 | 11210.3 | 11359.9 | 11618.0 | 11782.6 | 11199.1 | 10166.7 |
| 40° | 10701.6 | 10593.1 | 10649.2 | 10772.7 | 11101.8 | 11827.5 | 11786.4 | 12051.9 | 12104.3 | 11861.2 | 10952.2 |
| 42.5° | 11273.9 | 11221.5 | 11143.0 | 11423.5 | 11700.3 | 12227.7 | 12310.0 | 12186.6 | 12452.2 | 12508.3 | 12074.4 |
| 45° | 11958.4 | 12022.0 | 12033.2 | 12040.7 | 12283.8 | 12743.9 | 12631.7 | 12523.2 | 12830.0 | 13237.7 | 12770.1 |
| 47.5° | 12594.3 | 12392.3 | 12538.2 | 12740.2 | 13084.3 | 13088.0 | 13219.0 | 12960.9 | 13286.3 | 13649.1 | 13398.5 |
| 50° | 12807.5 | 12710.3 | 12904.8 | 13286.3 | 13817.4 | 13873.6 | 13888.5 | 13521.9 | 13690.3 | 13978.3 | 13615.5 |
| 52.5° | 12725.2 | 12691.6 | 13189.0 | 13780.0 | 14558.1 | 14842.3 | 14917.2 | 14464.6 | 14558.1 | 14427.2 | 14094.2 |
| 55° | 12332.5 | 12433.5 | 12934.7 | 14139.1 | 15332.4 | 16211.4 | 16353.5 | 15781.2 | 15186.5 | 15287.5 | 14920.9 |
| 56° | 11793.8 | 11618.0 | 12179.1 | 13731.4 | 15298.7 | 16656.5 | 16772.5 | 16058.0 | 15654.0 | 15523.1 | 14913.4 |
| 57.5° | 10005.9 | 9777.7 | 10514.6 | 12354.9 | 14449.6 | 16488.2 | 16574.2 | 16174.0 | 15575.5 | 15309.9 | 13824.9 |
| 60° | 5857.6 | 5969.9 | 6905.0 | 8520.9 | 11146.7 | 13518.2 | 13806.2 | 14098.0 | 13697.8 | 12508.3 | 10290.1 |
| 62.5° | 2827.8 | 2756.8 | 3426.3 | 4885.1 | 6792.8 | 8629.4 | 8543.3 | 9362.5 | 9811.4 | 8887.5 | 6497.3 |
| 65° | 1481.2 | 1473.8 | 1870.3 | 2667.0 | 3733.0 | 4533.5 | 4612.1 | 5053.4 | 5670.6 | 4578.4 | 3299.1 |
| 67.5° | 1088.5 | 1118.4 | 1316.7 | 1874.0 | 2401.4 | 2450.0 | 2438.8 | 2659.5 | 2719.4 | 2300.4 | 2027.4 |
| 70° | 852.8 | 867.8 | 1013.7 | 1425.1 | 1788.0 | 1600.9 | 1567.3 | 1593.5 | 1769.3 | 1844.1 | 1754.3 |
| 72.5° | 617.2 | 632.1 | 755.6 | 961.3 | 1118.4 | 1092.2 | 1114.7 | 1260.6 | 1477.5 | 1556.1 | 1462.5 |
| 75° | 411.5 | 422.7 | 490.0 | 587.3 | 662.1 | 714.4 | 755.6 | 923.9 | 1125.9 | 1170.8 | 1125.9 |
| 77.5° | 284.3 | 295.5 | 340.4 | 415.2 | 422.7 | 456.3 | 471.3 | 549.9 | 673.3 | 729.4 | 699.5 |
| 80° | 160.8 | 160.8 | 183.3 | 213.2 | 261.8 | 306.7 | 314.2 | 377.8 | 433.9 | 471.3 | 478.8 |
| 82.5° | 74.8 | 78.6 | 97.3 | 130.9 | 172.1 | 213.2 | 220.7 | 261.8 | 303.0 | 340.4 | 351.6 |
| 85° | 37.4 | 41.1 | 56.1 | 78.6 | 104.7 | 127.2 | 123.4 | 127.2 | 134.7 | 127.2 | 130.9 |
| 87.5° | 11.2 | 11.2 | 15.0 | 18.7 | 15.0 | 18.7 | 18.7 | 22.4 | 26.2 | 29.9 | 33.7 |
| 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-SA8A-735-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 | 5891.3 |
| 2.5° | 5925.0 | 5936.2 | 5861.4 | 5932.5 | 5906.3 | 5902.5 | 5954.9 | 5947.4 | 5966.1 | 5958.6 | 5913.7 |
| 5° | 5928.7 | 5902.5 | 5981.1 | 5910.0 | 5943.7 | 6014.7 | 5966.1 | 6078.3 | 6022.2 | 6059.6 | 5977.3 |
| 7.5° | 6044.7 | 6052.1 | 6037.2 | 6067.1 | 6052.1 | 6085.8 | 6059.6 | 6085.8 | 6040.9 | 6044.7 | 6119.5 |
| 10° | 6145.7 | 6123.2 | 6149.4 | 6112.0 | 6138.2 | 6127.0 | 6067.1 | 6048.4 | 6063.4 | 6044.7 | 6093.3 |
| 12.5° | 6332.7 | 6291.5 | 6272.8 | 6228.0 | 6198.0 | 6085.8 | 5992.3 | 5939.9 | 6011.0 | 6022.2 | 5999.8 |
| 15° | 6523.5 | 6527.2 | 6441.2 | 6340.2 | 6153.1 | 5984.8 | 6007.3 | 6026.0 | 6026.0 | 6055.9 | 5999.8 |
| 17.5° | 6643.1 | 6643.1 | 6564.6 | 6362.6 | 6171.8 | 6074.6 | 6052.1 | 5992.3 | 5939.9 | 5932.5 | 5928.7 |
| 20° | 6852.6 | 6789.0 | 6609.5 | 6358.9 | 6164.4 | 6119.5 | 5951.2 | 5809.0 | 5700.5 | 5663.1 | 5659.4 |
| 22.5° | 7092.0 | 6931.2 | 6680.6 | 6366.3 | 6153.1 | 6089.6 | 5775.3 | 5562.1 | 5367.6 | 5285.3 | 5296.6 |
| 25° | 7312.7 | 7054.6 | 6721.7 | 6332.7 | 6112.0 | 5805.3 | 5453.7 | 5158.2 | 4956.2 | 4888.8 | 4855.2 |
| 27.5° | 7466.1 | 7185.5 | 6721.7 | 6362.6 | 5958.6 | 5487.3 | 5128.2 | 4750.4 | 4574.6 | 4529.8 | 4537.2 |
| 30° | 7671.8 | 7350.1 | 6837.7 | 6299.0 | 5651.9 | 5075.9 | 4645.7 | 4398.8 | 4294.1 | 4256.7 | 4282.9 |
| 32.5° | 8154.3 | 7780.3 | 6998.5 | 6145.7 | 5289.1 | 4664.4 | 4316.5 | 4178.2 | 4024.8 | 3950.0 | 3923.8 |
| 35° | 8678.0 | 8188.0 | 7155.6 | 5887.6 | 4881.4 | 4290.4 | 4073.4 | 3946.2 | 3763.0 | 3680.7 | 3695.6 |
| 37.5° | 9418.6 | 8711.7 | 7166.8 | 5461.1 | 4440.0 | 4080.9 | 3882.7 | 3684.4 | 3534.8 | 3407.6 | 3370.2 |
| 40° | 10417.3 | 9426.1 | 7140.6 | 5012.3 | 4084.6 | 3834.0 | 3688.1 | 3441.3 | 3272.9 | 3183.2 | 3201.9 |
| 42.5° | 11296.3 | 10264.0 | 7032.2 | 4503.6 | 3763.0 | 3665.7 | 3501.1 | 3258.0 | 3093.4 | 2999.9 | 2992.4 |
| 45° | 12037.0 | 10881.1 | 6826.4 | 4069.7 | 3493.6 | 3478.7 | 3287.9 | 3100.9 | 2970.0 | 2883.9 | 2921.3 |
| 47.5° | 12721.5 | 11378.6 | 6516.0 | 3635.8 | 3246.8 | 3276.7 | 3093.4 | 2977.4 | 2895.2 | 2816.6 | 2812.9 |
| 50° | 12968.4 | 11371.2 | 6242.9 | 3276.7 | 3048.5 | 3033.6 | 3026.1 | 2902.6 | 2816.6 | 2749.3 | 2779.2 |
| 52.5° | 13379.8 | 11498.3 | 5947.4 | 3029.8 | 2869.0 | 2872.7 | 2898.9 | 2809.1 | 2711.9 | 2670.7 | 2708.1 |
| 55° | 13970.8 | 11517.0 | 5296.6 | 2741.8 | 2719.4 | 2745.5 | 2745.5 | 2685.7 | 2603.4 | 2569.7 | 2551.0 |
| 56° | 13488.3 | 10959.7 | 4750.4 | 2667.0 | 2644.5 | 2644.5 | 2715.6 | 2648.3 | 2547.3 | 2521.1 | 2498.7 |
| 57.5° | 12440.9 | 9601.9 | 3976.2 | 2577.2 | 2543.5 | 2595.9 | 2633.3 | 2562.3 | 2468.7 | 2431.3 | 2453.8 |
| 60° | 8580.7 | 6497.3 | 2988.7 | 2382.7 | 2382.7 | 2468.7 | 2498.7 | 2393.9 | 2352.8 | 2349.0 | 2319.1 |
| 62.5° | 5008.5 | 3785.4 | 2337.8 | 2206.9 | 2214.4 | 2285.5 | 2307.9 | 2248.0 | 2195.7 | 2259.3 | 2289.2 |
| 65° | 2655.8 | 2259.3 | 2004.9 | 2019.9 | 2023.6 | 2079.7 | 2177.0 | 2173.2 | 2169.5 | 2188.2 | 2191.9 |
| 67.5° | 1922.6 | 1877.7 | 1821.6 | 1806.7 | 1814.1 | 1855.3 | 1952.5 | 2027.4 | 2023.6 | 1978.7 | 1945.1 |
| 70° | 1713.2 | 1649.6 | 1615.9 | 1619.6 | 1589.7 | 1638.3 | 1716.9 | 1765.5 | 1679.5 | 1627.1 | 1604.7 |
| 72.5° | 1425.1 | 1406.4 | 1384.0 | 1387.7 | 1327.9 | 1316.7 | 1226.9 | 1226.9 | 1204.4 | 1189.5 | 1215.7 |
| 75° | 1088.5 | 1081.0 | 1092.2 | 1073.5 | 1009.9 | 942.6 | 890.2 | 841.6 | 766.8 | 736.9 | 721.9 |
| 77.5° | 688.3 | 710.7 | 736.9 | 695.7 | 669.6 | 620.9 | 568.6 | 519.9 | 460.1 | 426.4 | 426.4 |
| 80° | 467.6 | 486.3 | 505.0 | 497.5 | 467.6 | 422.7 | 381.5 | 329.2 | 288.0 | 261.8 | 258.1 |
| 82.5° | 355.3 | 370.3 | 396.5 | 366.6 | 336.6 | 299.2 | 265.6 | 228.2 | 190.8 | 160.8 | 160.8 |
| 85° | 127.2 | 145.9 | 160.8 | 175.8 | 187.0 | 190.8 | 164.6 | 134.7 | 108.5 | 86.0 | 82.3 |
| 87.5° | 33.7 | 37.4 | 41.1 | 37.4 | 37.4 | 37.4 | 41.1 | 37.4 | 33.7 | 26.2 | 26.2 |
| 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)