

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: P529442

Luminaire Tested: **GALN-SA4C-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529442
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-SA4C-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1050mA 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: 24278 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

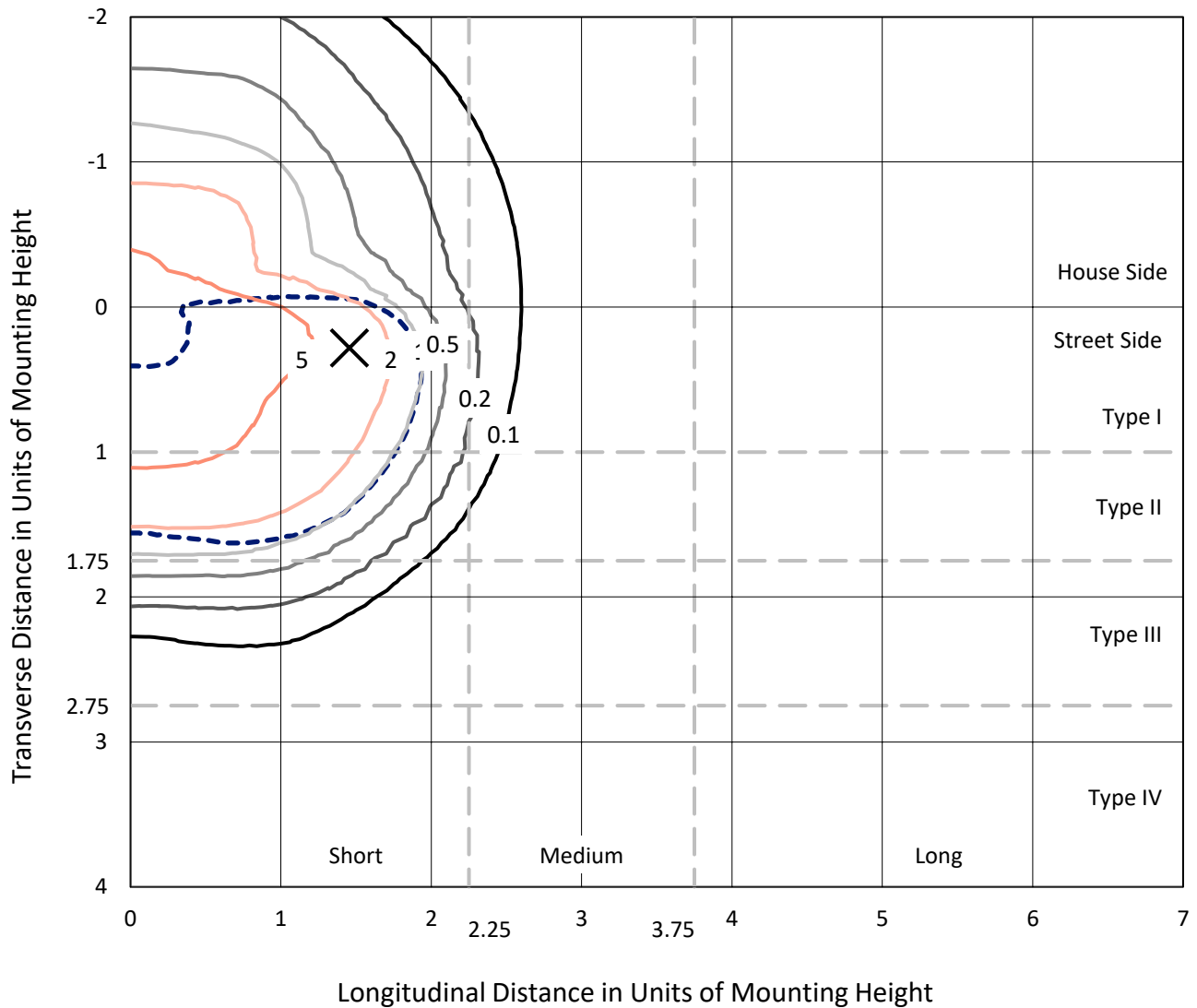
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

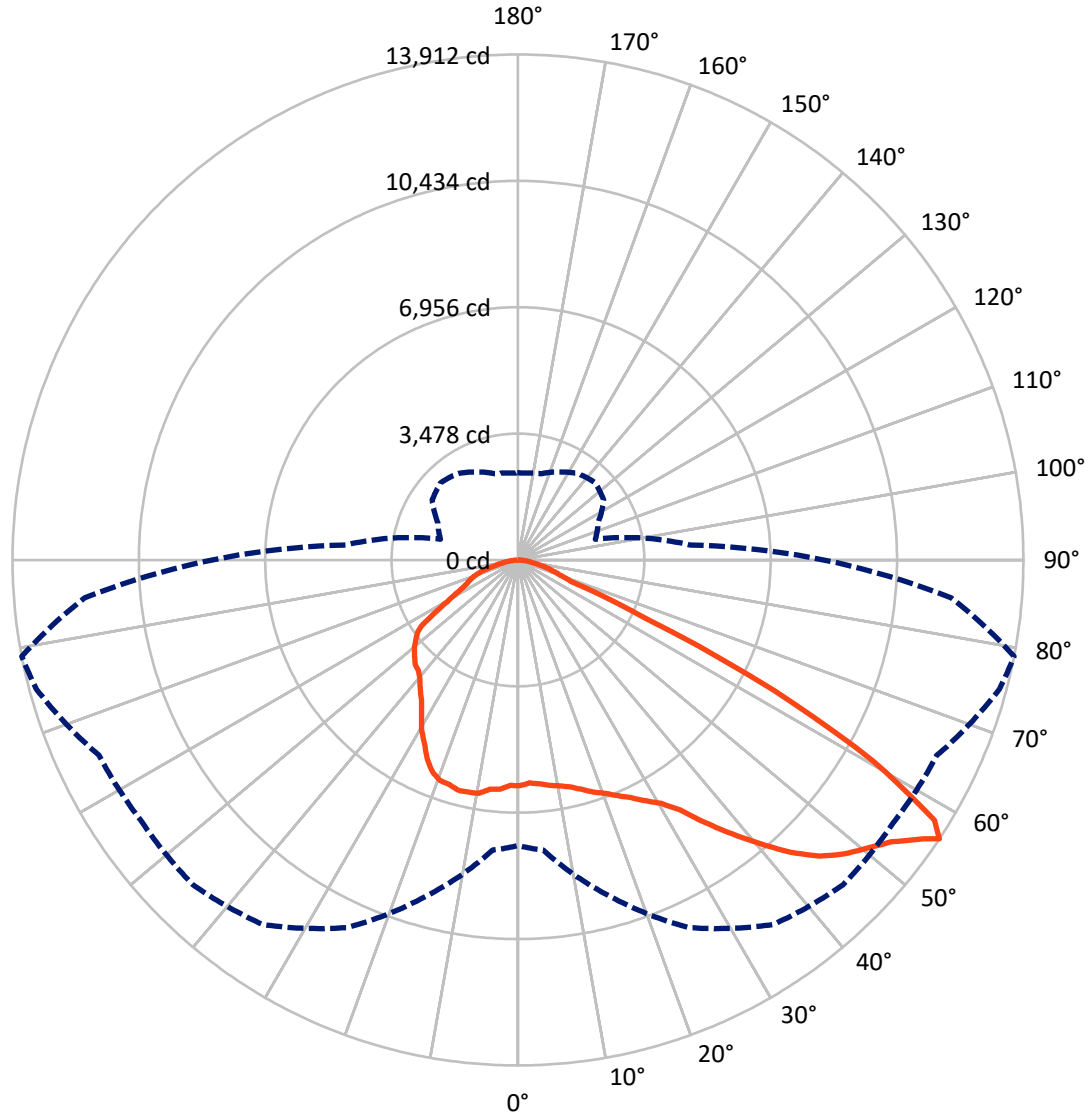
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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 | 7169.8 | 0.0 | 7169.8 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 17108.2 | 0.0 | 17108.2 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 24278.0 | 0.0 | 24278.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 564.8 | 2.3 |
| 10°-20° | 1545.6 | 6.4 |
| 20°-30° | 2644.3 | 10.9 |
| 30°-40° | 4052.6 | 16.7 |
| 40°-50° | 5477.1 | 22.6 |
| 50°-60° | 6290.7 | 25.9 |
| 60°-70° | 2867.5 | 11.8 |
| 70°-80° | 707.0 | 2.9 |
| 80°-90° | 128.5 | 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° | 24278.0 | 100.0 |
| 0°-180° | 24278.0 | 100.0 |

Coefficient of Utilization



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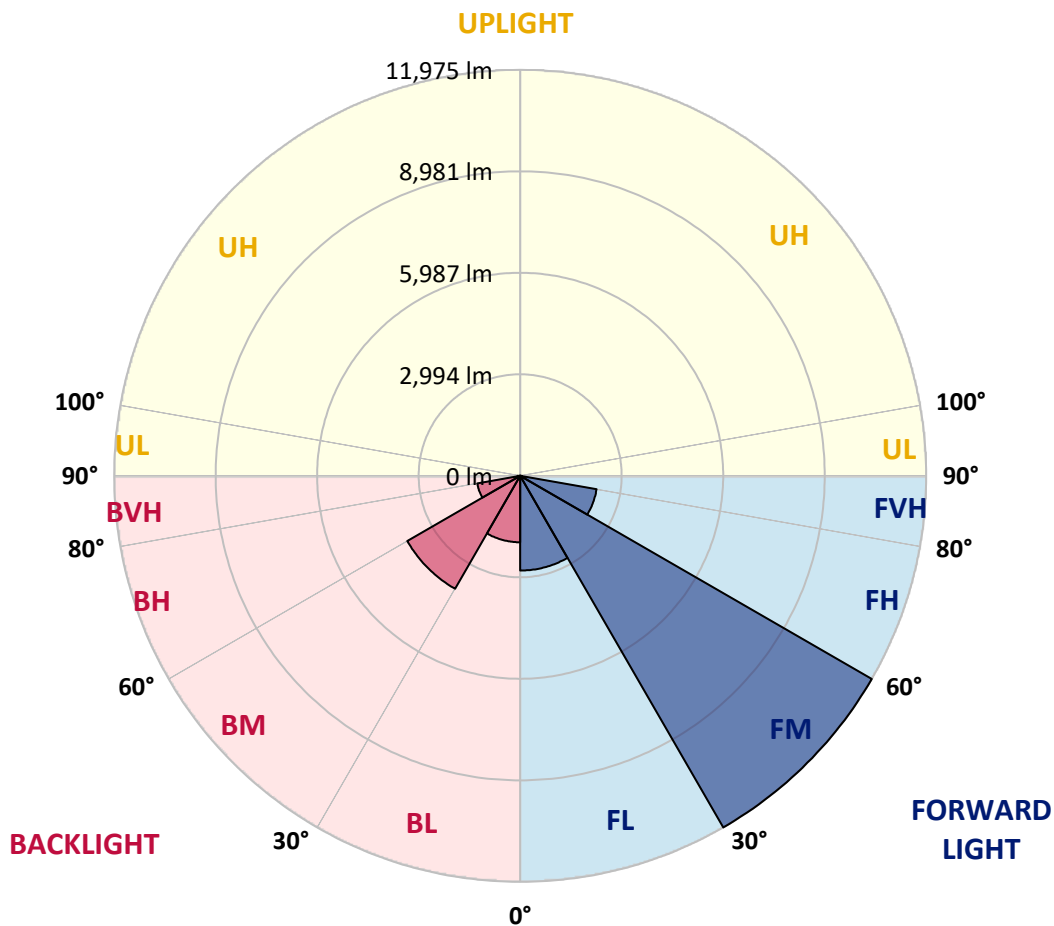
CATALOG NUMBER: GALN-SA4C-750-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2793.4 | 11.5 | | | |
| FM (30°-60°) | 11974.6 | 49.3 | | | |
| FH (60°-80°) | 2288.9 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 51.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1961.3 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 3845.8 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1285.6 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 77.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 |
| 2.5° | 5909.4 | 5894.2 | 5930.5 | 5957.7 | 5991.0 | 6033.3 | 6054.5 | 6066.6 | 6172.5 | 6145.2 | 6226.9 |
| 5° | 5782.3 | 5743.0 | 5770.2 | 5791.4 | 5848.9 | 5900.3 | 5957.7 | 6048.5 | 6145.2 | 6187.6 | 6287.4 |
| 7.5° | 5670.4 | 5649.3 | 5643.2 | 5658.3 | 5737.0 | 5803.5 | 5903.3 | 6036.4 | 6193.6 | 6263.2 | 6320.7 |
| 10° | 5486.0 | 5455.7 | 5501.1 | 5600.9 | 5622.1 | 5761.2 | 5876.1 | 6066.6 | 6202.7 | 6323.7 | 6493.0 |
| 12.5° | 5404.3 | 5374.1 | 5383.1 | 5440.6 | 5588.8 | 5721.9 | 5857.9 | 6072.7 | 6360.0 | 6408.4 | 6635.2 |
| 15° | 5534.4 | 5504.1 | 5513.2 | 5498.1 | 5640.2 | 5709.8 | 5924.5 | 6193.6 | 6468.8 | 6550.5 | 6792.4 |
| 17.5° | 5830.7 | 5833.7 | 5794.4 | 5761.2 | 5727.9 | 5876.1 | 6024.3 | 6266.2 | 6511.2 | 6716.8 | 6898.3 |
| 20° | 6396.3 | 6296.5 | 6217.8 | 6030.3 | 5978.9 | 6042.4 | 6229.9 | 6462.8 | 6683.6 | 6852.9 | 7058.6 |
| 22.5° | 6831.7 | 6840.8 | 6728.9 | 6420.5 | 6308.6 | 6335.8 | 6496.1 | 6686.6 | 6928.5 | 7049.5 | 7285.4 |
| 25° | 7463.8 | 7400.3 | 7279.3 | 7034.4 | 6783.4 | 6804.5 | 6922.5 | 7094.9 | 7161.4 | 7246.1 | 7503.1 |
| 27.5° | 8041.4 | 8059.6 | 7820.7 | 7590.8 | 7279.3 | 7218.8 | 7430.5 | 7460.8 | 7348.9 | 7509.2 | 7596.9 |
| 30° | 8628.1 | 8613.0 | 8455.8 | 8186.6 | 7881.2 | 7893.3 | 7987.0 | 7838.8 | 7684.6 | 7772.3 | 7832.8 |
| 32.5° | 9236.0 | 9063.6 | 9057.6 | 8815.6 | 8582.8 | 8470.9 | 8356.0 | 8428.5 | 8189.6 | 8207.8 | 8150.3 |
| 35° | 9722.9 | 9747.1 | 9608.0 | 9435.6 | 9320.7 | 9124.1 | 8809.6 | 8939.6 | 8894.3 | 8873.1 | 8625.1 |
| 37.5° | 10076.8 | 9983.0 | 10052.6 | 9995.1 | 9886.2 | 9641.3 | 9314.6 | 9438.6 | 9459.8 | 9562.6 | 9275.3 |
| 40° | 10367.1 | 10327.8 | 10512.2 | 10542.5 | 10466.9 | 9937.6 | 9350.9 | 9719.9 | 10037.4 | 10261.2 | 9919.5 |
| 42.5° | 10506.2 | 10590.9 | 10784.4 | 11017.3 | 10847.9 | 10282.4 | 9538.4 | 9934.6 | 10642.3 | 10996.1 | 10530.4 |
| 45° | 10693.7 | 10584.8 | 10872.1 | 11298.5 | 11301.6 | 10572.7 | 9719.9 | 10224.9 | 11114.1 | 11628.2 | 10947.7 |
| 47.5° | 10503.2 | 10557.6 | 10854.0 | 11395.3 | 11534.4 | 10878.2 | 10209.8 | 10636.2 | 11634.2 | 12090.9 | 11334.8 |
| 50° | 10076.8 | 10185.6 | 10727.0 | 11289.5 | 11709.8 | 11201.8 | 10772.3 | 11080.8 | 12115.1 | 12462.9 | 11398.3 |
| 52.5° | 9632.2 | 9692.7 | 10539.5 | 11371.1 | 11788.5 | 11619.1 | 11525.4 | 11694.7 | 12701.8 | 12883.2 | 11477.0 |
| 55° | 8422.5 | 8709.8 | 9919.5 | 11334.8 | 12172.5 | 12372.1 | 12299.6 | 12547.6 | 13367.1 | 13548.6 | 11906.4 |
| 56° | 7863.0 | 8014.2 | 9547.5 | 11165.5 | 12248.2 | 12647.4 | 12611.1 | 12723.0 | 13721.0 | 13911.5 | 11972.9 |
| 57.5° | 6828.7 | 6840.8 | 8141.2 | 10415.5 | 11963.9 | 12729.0 | 12692.7 | 12780.4 | 13651.4 | 13521.4 | 11389.3 |
| 60° | 4273.2 | 4460.7 | 5540.4 | 8011.2 | 10173.5 | 11809.6 | 12015.3 | 11310.6 | 11510.2 | 11235.0 | 8861.0 |
| 62.5° | 2213.7 | 2186.5 | 2903.3 | 4684.5 | 6753.1 | 8455.8 | 8646.3 | 8613.0 | 8304.5 | 7902.3 | 5788.4 |
| 65° | 1103.8 | 1109.9 | 1518.2 | 2319.6 | 3459.7 | 4427.5 | 4959.7 | 5017.2 | 4197.6 | 3861.9 | 2746.0 |
| 67.5° | 801.4 | 831.7 | 1091.7 | 1418.4 | 1630.1 | 1823.6 | 2234.9 | 2192.6 | 1660.3 | 1578.7 | 1463.7 |
| 70° | 623.0 | 650.2 | 886.1 | 1082.7 | 982.9 | 982.9 | 1070.6 | 1106.9 | 1182.5 | 1215.7 | 1255.1 |
| 72.5° | 453.6 | 474.8 | 677.4 | 747.0 | 644.2 | 692.5 | 801.4 | 886.1 | 964.7 | 976.8 | 1022.2 |
| 75° | 311.5 | 329.6 | 444.6 | 411.3 | 387.1 | 477.8 | 586.7 | 665.3 | 722.8 | 753.0 | 780.3 |
| 77.5° | 202.6 | 208.7 | 254.0 | 214.7 | 248.0 | 308.5 | 381.1 | 447.6 | 505.0 | 529.2 | 535.3 |
| 80° | 90.7 | 99.8 | 108.9 | 136.1 | 172.4 | 220.8 | 272.2 | 326.6 | 362.9 | 372.0 | 390.1 |
| 82.5° | 51.4 | 51.4 | 66.5 | 96.8 | 127.0 | 160.3 | 196.6 | 235.9 | 278.2 | 287.3 | 284.3 |
| 85° | 27.2 | 27.2 | 39.3 | 57.5 | 78.6 | 93.8 | 90.7 | 93.8 | 99.8 | 114.9 | 111.9 |
| 87.5° | 9.1 | 9.1 | 12.1 | 12.1 | 15.1 | 18.1 | 15.1 | 21.2 | 27.2 | 27.2 | 27.2 |
| 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-SA4C-750-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 | 6211.8 |
| 2.5° | 6202.7 | 6229.9 | 6193.6 | 6272.3 | 6272.3 | 6257.1 | 6181.5 | 6205.7 | 6223.9 | 6223.9 | 6239.0 |
| 5° | 6320.7 | 6311.6 | 6335.8 | 6242.0 | 6184.6 | 6163.4 | 6039.4 | 5978.9 | 5927.5 | 5924.5 | 5879.1 |
| 7.5° | 6387.2 | 6363.0 | 6353.9 | 6284.4 | 6030.3 | 5876.1 | 5610.0 | 5455.7 | 5422.5 | 5304.5 | 5349.9 |
| 10° | 6493.0 | 6538.4 | 6493.0 | 6115.0 | 5761.2 | 5407.3 | 5147.2 | 4908.3 | 4814.6 | 4739.0 | 4693.6 |
| 12.5° | 6710.8 | 6689.6 | 6426.5 | 5915.4 | 5419.4 | 4999.1 | 4612.0 | 4360.9 | 4267.2 | 4200.7 | 4194.6 |
| 15° | 6895.3 | 6789.4 | 6387.2 | 5600.9 | 4887.2 | 4439.6 | 4122.0 | 3943.6 | 3901.3 | 3907.3 | 3934.5 |
| 17.5° | 6958.8 | 6886.2 | 6181.5 | 5274.3 | 4491.0 | 3964.8 | 3816.6 | 3789.4 | 3828.7 | 3874.0 | 3886.1 |
| 20° | 7058.6 | 6943.6 | 6096.9 | 4829.7 | 4001.1 | 3668.4 | 3659.3 | 3756.1 | 3828.7 | 3895.2 | 3904.3 |
| 22.5° | 7267.2 | 6976.9 | 5821.7 | 4409.3 | 3665.4 | 3580.7 | 3668.4 | 3750.1 | 3861.9 | 3916.4 | 3868.0 |
| 25° | 7327.7 | 6904.3 | 5434.6 | 3904.3 | 3453.7 | 3526.3 | 3620.0 | 3731.9 | 3810.5 | 3840.8 | 3861.9 |
| 27.5° | 7379.1 | 6792.4 | 4911.4 | 3568.6 | 3387.1 | 3523.2 | 3620.0 | 3713.8 | 3756.1 | 3783.3 | 3807.5 |
| 30° | 7524.3 | 6759.2 | 4457.7 | 3344.8 | 3344.8 | 3462.7 | 3586.7 | 3610.9 | 3668.4 | 3701.7 | 3744.0 |
| 32.5° | 7596.9 | 6529.3 | 3992.0 | 3202.7 | 3302.5 | 3493.0 | 3502.1 | 3547.4 | 3550.5 | 3577.7 | 3532.3 |
| 35° | 7787.4 | 6366.0 | 3559.5 | 3099.8 | 3320.6 | 3462.7 | 3508.1 | 3480.9 | 3332.7 | 3260.1 | 3275.2 |
| 37.5° | 7926.5 | 6284.4 | 3248.0 | 3087.7 | 3323.6 | 3496.0 | 3520.2 | 3314.6 | 3160.3 | 3039.4 | 3069.6 |
| 40° | 8301.5 | 6081.7 | 3012.1 | 3066.6 | 3350.9 | 3532.3 | 3465.8 | 3242.0 | 2963.8 | 2839.8 | 2818.6 |
| 42.5° | 8588.8 | 5936.6 | 2864.0 | 3042.4 | 3372.0 | 3583.7 | 3438.6 | 3096.8 | 2812.5 | 2697.6 | 2727.9 |
| 45° | 8921.5 | 5903.3 | 2785.3 | 3048.4 | 3408.3 | 3610.9 | 3405.3 | 2984.9 | 2682.5 | 2637.1 | 2628.1 |
| 47.5° | 9039.4 | 5664.4 | 2700.6 | 2997.0 | 3399.2 | 3601.9 | 3293.4 | 2900.2 | 2634.1 | 2640.2 | 2664.4 |
| 50° | 8842.9 | 5419.4 | 2637.1 | 2891.2 | 3338.8 | 3520.2 | 3118.0 | 2788.3 | 2606.9 | 2682.5 | 2724.8 |
| 52.5° | 8591.9 | 5168.4 | 2507.1 | 2749.0 | 3214.8 | 3393.2 | 3036.3 | 2782.3 | 2579.7 | 2555.5 | 2564.6 |
| 55° | 8667.5 | 4962.8 | 2325.6 | 2555.5 | 3015.2 | 3157.3 | 2945.6 | 2724.8 | 2513.1 | 2422.4 | 2452.7 |
| 56° | 8422.5 | 4751.1 | 2207.7 | 2434.5 | 2879.1 | 3006.1 | 2900.2 | 2673.4 | 2458.7 | 2398.2 | 2398.2 |
| 57.5° | 7729.9 | 4040.4 | 2053.5 | 2241.0 | 2591.8 | 2743.0 | 2812.5 | 2643.2 | 2398.2 | 2292.4 | 2295.4 |
| 60° | 5700.7 | 2873.0 | 1841.8 | 1974.8 | 2147.2 | 2268.2 | 2591.8 | 2558.5 | 2247.0 | 2174.4 | 2147.2 |
| 62.5° | 3514.2 | 2098.8 | 1690.5 | 1742.0 | 1829.7 | 1929.5 | 2262.1 | 2316.6 | 2086.7 | 2008.1 | 1989.9 |
| 65° | 1968.8 | 1605.9 | 1575.6 | 1596.8 | 1639.1 | 1690.5 | 1878.0 | 1999.0 | 1841.8 | 1720.8 | 1714.7 |
| 67.5° | 1439.5 | 1436.5 | 1460.7 | 1478.9 | 1497.0 | 1497.0 | 1542.4 | 1590.7 | 1569.6 | 1472.8 | 1463.7 |
| 70° | 1279.3 | 1288.3 | 1306.5 | 1309.5 | 1315.5 | 1294.4 | 1258.1 | 1243.0 | 1267.2 | 1206.7 | 1194.6 |
| 72.5° | 1055.5 | 1085.7 | 1106.9 | 1109.9 | 1076.6 | 1049.4 | 1001.0 | 949.6 | 931.5 | 919.4 | 916.3 |
| 75° | 810.5 | 831.7 | 840.7 | 837.7 | 825.6 | 786.3 | 728.8 | 677.4 | 644.2 | 607.9 | 626.0 |
| 77.5° | 547.4 | 577.6 | 592.8 | 592.8 | 574.6 | 514.1 | 486.9 | 447.6 | 414.3 | 375.0 | 381.1 |
| 80° | 384.1 | 405.2 | 429.4 | 426.4 | 396.2 | 365.9 | 326.6 | 290.3 | 263.1 | 232.9 | 229.8 |
| 82.5° | 287.3 | 299.4 | 311.5 | 305.4 | 284.3 | 254.0 | 226.8 | 193.6 | 163.3 | 142.1 | 142.1 |
| 85° | 102.8 | 111.9 | 136.1 | 142.1 | 154.2 | 154.2 | 130.0 | 108.9 | 87.7 | 72.6 | 72.6 |
| 87.5° | 30.2 | 30.2 | 33.3 | 33.3 | 30.2 | 33.3 | 27.2 | 30.2 | 33.3 | 21.2 | 21.2 |
| 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)