

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: P534122

Luminaire Tested: **GALN-SA9C-750-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534122
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-SA9C-750-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 55637 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G4

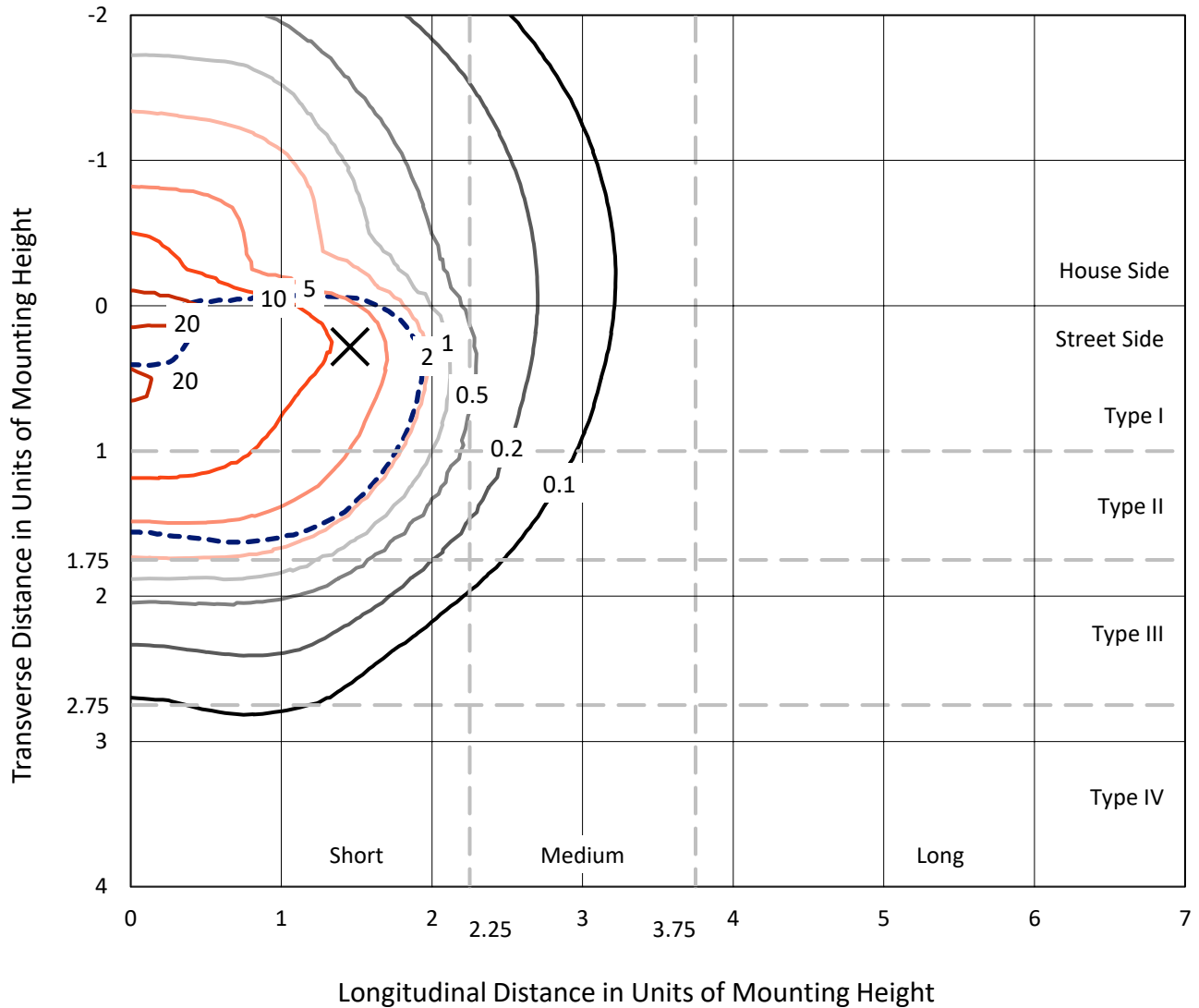
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

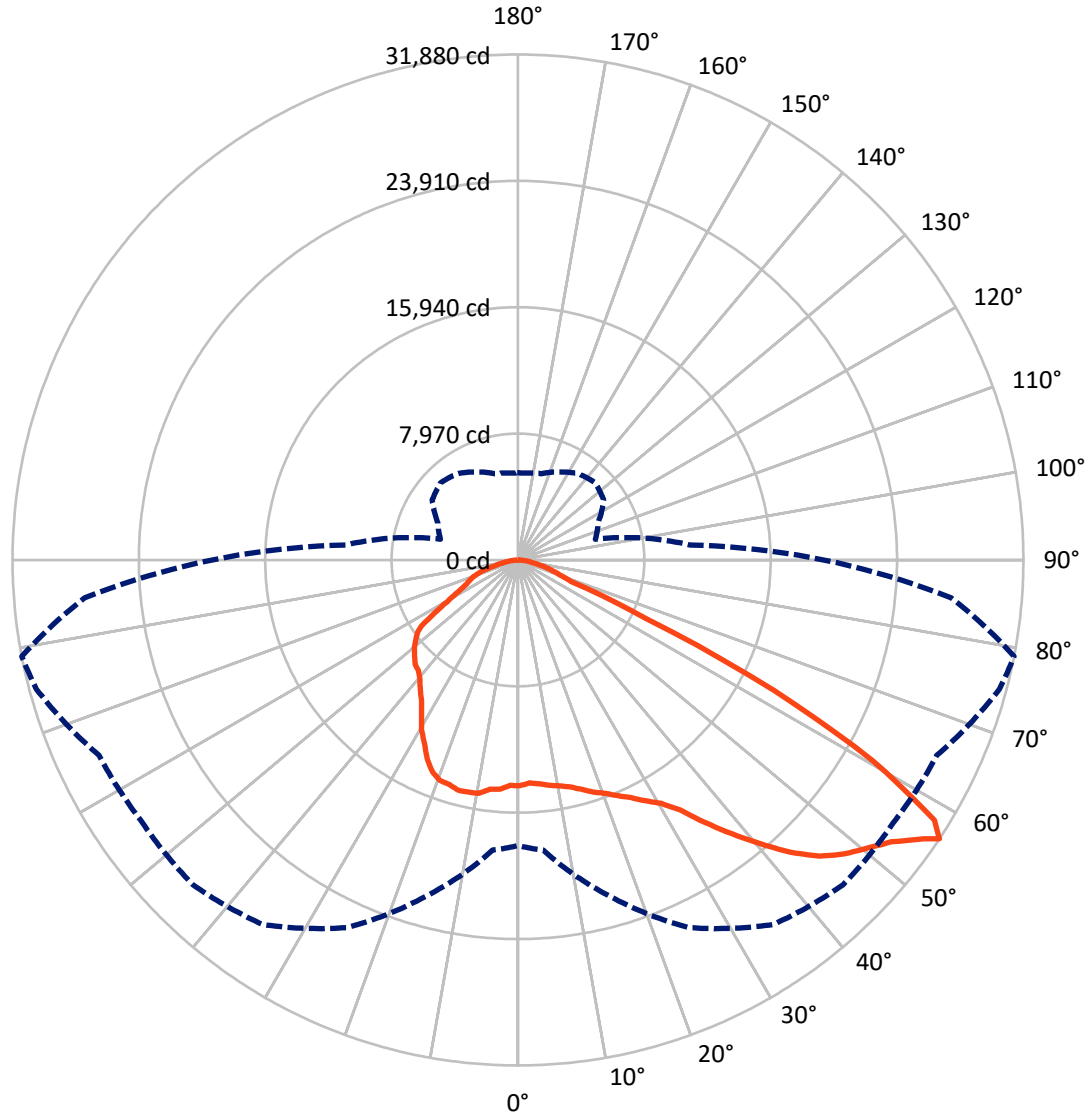
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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 | 16430.8 | 0.0 | 16430.8 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 39206.2 | 0.0 | 39206.2 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 55637.0 | 0.0 | 55637.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1294.3 | 2.3 |
| 10°-20° | 3542.0 | 6.4 |
| 20°-30° | 6059.7 | 10.9 |
| 30°-40° | 9287.3 | 16.7 |
| 40°-50° | 12551.7 | 22.6 |
| 50°-60° | 14416.1 | 25.9 |
| 60°-70° | 6571.3 | 11.8 |
| 70°-80° | 1620.1 | 2.9 |
| 80°-90° | 294.5 | 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° | 55637.0 | 100.0 |
| 0°-180° | 55637.0 | 100.0 |

Coefficient of Utilization



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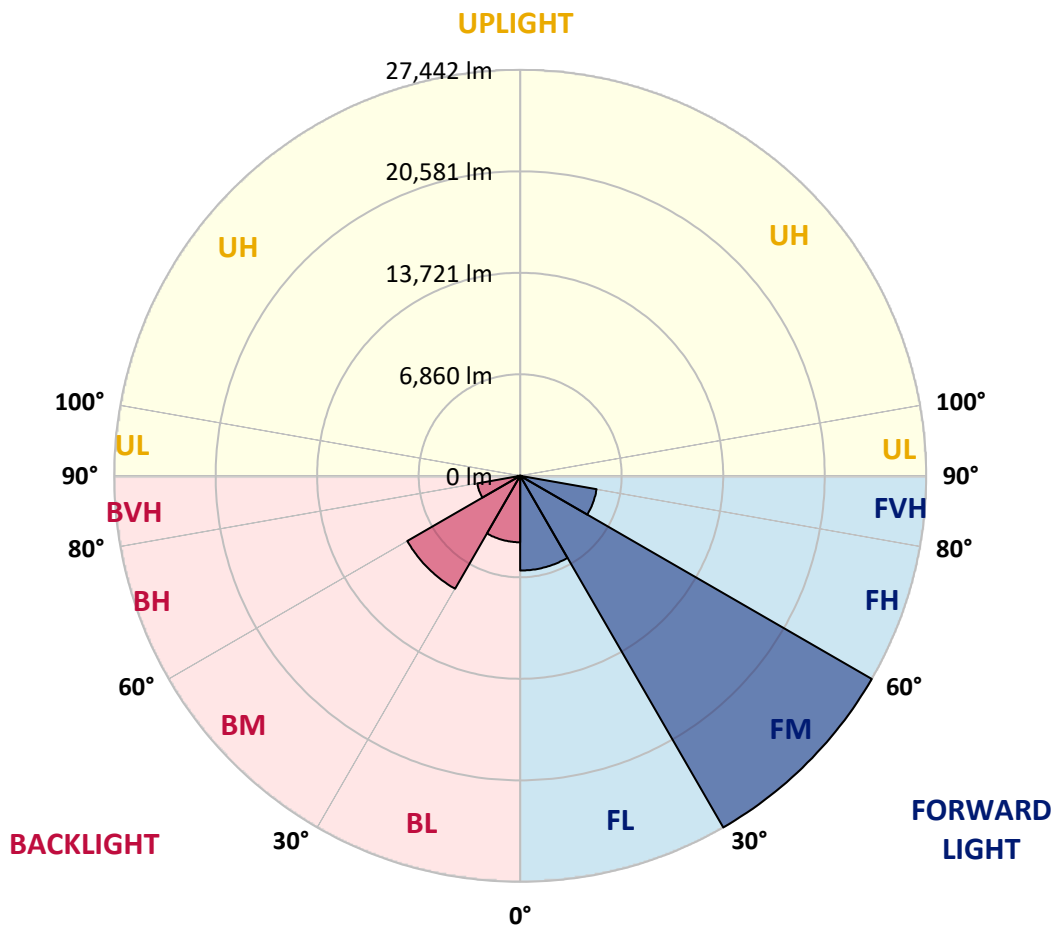
CATALOG NUMBER: GALN-SA9C-750-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6401.5 | 11.5 | | | |
| FM (30°-60°) | 27441.8 | 49.3 | | | |
| FH (60°-80°) | 5245.3 | 9.4 | | | G3/7500 |
| FVH (80°-90°) | 117.6 | 0.2 | | | G2/225 |
| BL (0°-30°) | 4494.5 | 8.1 | B4/5000 | | |
| BM (30°-60°) | 8813.3 | 15.8 | B5 | | |
| BH (60°-80°) | 2946.1 | 5.3 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 176.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 |
| 2.5° | 13542.3 | 13507.6 | 13590.8 | 13653.1 | 13729.4 | 13826.4 | 13874.9 | 13902.6 | 14145.2 | 14082.8 | 14270.0 |
| 5° | 13251.2 | 13161.1 | 13223.4 | 13272.0 | 13403.6 | 13521.5 | 13653.1 | 13861.1 | 14082.8 | 14179.9 | 14408.6 |
| 7.5° | 12994.7 | 12946.2 | 12932.4 | 12967.0 | 13147.2 | 13299.7 | 13528.4 | 13833.3 | 14193.7 | 14353.1 | 14484.8 |
| 10° | 12572.0 | 12502.7 | 12606.6 | 12835.3 | 12883.9 | 13202.7 | 13466.0 | 13902.6 | 14214.5 | 14491.7 | 14879.8 |
| 12.5° | 12384.9 | 12315.5 | 12336.3 | 12468.0 | 12807.6 | 13112.6 | 13424.4 | 13916.5 | 14574.9 | 14685.8 | 15205.6 |
| 15° | 12682.9 | 12613.6 | 12634.4 | 12599.7 | 12925.4 | 13084.8 | 13576.9 | 14193.7 | 14824.4 | 15011.5 | 15566.0 |
| 17.5° | 13362.1 | 13369.0 | 13278.9 | 13202.7 | 13126.4 | 13466.0 | 13805.6 | 14360.1 | 14921.4 | 15392.7 | 15808.5 |
| 20° | 14658.1 | 14429.4 | 14249.2 | 13819.5 | 13701.7 | 13847.2 | 14276.9 | 14810.5 | 15316.5 | 15704.6 | 16175.9 |
| 22.5° | 15656.1 | 15676.9 | 15420.4 | 14713.5 | 14457.1 | 14519.5 | 14886.8 | 15323.4 | 15877.8 | 16155.1 | 16695.6 |
| 25° | 17104.5 | 16959.0 | 16681.8 | 16120.4 | 15545.2 | 15593.7 | 15864.0 | 16259.0 | 16411.5 | 16605.5 | 17194.6 |
| 27.5° | 18428.3 | 18469.9 | 17922.3 | 17395.6 | 16681.8 | 16543.2 | 17028.3 | 17097.6 | 16841.2 | 17208.5 | 17409.5 |
| 30° | 19772.8 | 19738.1 | 19377.8 | 18760.9 | 18061.0 | 18088.7 | 18303.5 | 17963.9 | 17610.5 | 17811.5 | 17950.1 |
| 32.5° | 21165.8 | 20770.8 | 20756.9 | 20202.5 | 19668.8 | 19412.4 | 19149.0 | 19315.4 | 18767.9 | 18809.5 | 18677.8 |
| 35° | 22281.6 | 22337.1 | 22018.3 | 21623.2 | 21359.9 | 20909.4 | 20188.6 | 20486.6 | 20382.7 | 20334.2 | 19765.9 |
| 37.5° | 23092.5 | 22877.7 | 23037.1 | 22905.4 | 22655.9 | 22094.5 | 21346.0 | 21630.2 | 21678.7 | 21914.3 | 21255.9 |
| 40° | 23757.9 | 23667.8 | 24090.5 | 24159.8 | 23986.6 | 22773.7 | 21429.2 | 22274.7 | 23002.4 | 23515.3 | 22732.1 |
| 42.5° | 24076.7 | 24270.7 | 24714.3 | 25247.9 | 24859.8 | 23563.8 | 21858.9 | 22766.8 | 24388.5 | 25199.4 | 24132.1 |
| 45° | 24506.3 | 24256.8 | 24915.2 | 25892.5 | 25899.4 | 24229.1 | 22274.7 | 23432.1 | 25469.7 | 26647.9 | 25088.5 |
| 47.5° | 24069.7 | 24194.5 | 24873.7 | 26114.2 | 26433.0 | 24929.1 | 23397.5 | 24374.7 | 26661.7 | 27708.3 | 25975.6 |
| 50° | 23092.5 | 23342.0 | 24582.6 | 25871.7 | 26835.0 | 25670.7 | 24686.5 | 25393.5 | 27763.7 | 28560.7 | 26121.2 |
| 52.5° | 22073.7 | 22212.3 | 24152.9 | 26058.8 | 27015.2 | 26627.1 | 26412.2 | 26800.4 | 29108.2 | 29524.1 | 26301.4 |
| 55° | 19301.5 | 19959.9 | 22732.1 | 25975.6 | 27895.4 | 28352.8 | 28186.5 | 28754.8 | 30632.9 | 31048.8 | 27285.5 |
| 56° | 18019.4 | 18365.9 | 21879.7 | 25587.5 | 28068.6 | 28983.5 | 28900.3 | 29156.7 | 31443.8 | 31880.4 | 27438.0 |
| 57.5° | 15649.1 | 15676.9 | 18657.0 | 23868.7 | 27417.2 | 29170.6 | 29087.4 | 29288.4 | 31284.4 | 30986.4 | 26100.4 |
| 60° | 9792.8 | 10222.5 | 12696.7 | 18359.0 | 23314.3 | 27063.7 | 27535.0 | 25920.2 | 26377.6 | 25746.9 | 20306.4 |
| 62.5° | 5073.1 | 5010.8 | 6653.3 | 10735.4 | 15475.9 | 19377.8 | 19814.4 | 19738.1 | 19031.2 | 18109.5 | 13265.0 |
| 65° | 2529.6 | 2543.5 | 3479.1 | 5315.7 | 7928.5 | 10146.3 | 11366.1 | 11497.7 | 9619.6 | 8850.3 | 6292.9 |
| 67.5° | 1836.6 | 1905.9 | 2501.9 | 3250.4 | 3735.6 | 4179.1 | 5121.7 | 5024.6 | 3804.9 | 3617.7 | 3354.4 |
| 70° | 1427.7 | 1490.1 | 2030.6 | 2481.1 | 2252.4 | 2252.4 | 2453.4 | 2536.6 | 2709.8 | 2786.1 | 2876.2 |
| 72.5° | 1039.6 | 1088.1 | 1552.4 | 1711.8 | 1476.2 | 1587.1 | 1836.6 | 2030.6 | 2210.8 | 2238.6 | 2342.5 |
| 75° | 713.8 | 755.4 | 1018.8 | 942.6 | 887.1 | 1095.0 | 1344.5 | 1524.7 | 1656.4 | 1725.7 | 1788.1 |
| 77.5° | 464.3 | 478.2 | 582.2 | 492.1 | 568.3 | 706.9 | 873.2 | 1025.7 | 1157.4 | 1212.8 | 1226.7 |
| 80° | 207.9 | 228.7 | 249.5 | 311.9 | 395.0 | 505.9 | 623.7 | 748.5 | 831.7 | 852.5 | 894.0 |
| 82.5° | 117.8 | 117.8 | 152.5 | 221.8 | 291.1 | 367.3 | 450.5 | 540.6 | 637.6 | 658.4 | 651.5 |
| 85° | 62.4 | 62.4 | 90.1 | 131.7 | 180.2 | 214.8 | 207.9 | 214.8 | 228.7 | 263.4 | 256.4 |
| 87.5° | 20.8 | 20.8 | 27.7 | 27.7 | 34.7 | 41.6 | 34.7 | 48.5 | 62.4 | 62.4 | 62.4 |
| 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-SA9C-750-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 | 14235.3 |
| 2.5° | 14214.5 | 14276.9 | 14193.7 | 14373.9 | 14373.9 | 14339.3 | 14166.0 | 14221.4 | 14263.0 | 14263.0 | 14297.7 |
| 5° | 14484.8 | 14464.0 | 14519.5 | 14304.6 | 14172.9 | 14124.4 | 13840.3 | 13701.7 | 13583.8 | 13576.9 | 13472.9 |
| 7.5° | 14637.3 | 14581.8 | 14561.0 | 14401.6 | 13819.5 | 13466.0 | 12856.1 | 12502.7 | 12426.4 | 12156.1 | 12260.1 |
| 10° | 14879.8 | 14983.8 | 14879.8 | 14013.5 | 13202.7 | 12391.8 | 11795.8 | 11248.2 | 11033.4 | 10860.1 | 10756.2 |
| 12.5° | 15378.8 | 15330.3 | 14727.4 | 13556.1 | 12419.5 | 11456.2 | 10569.1 | 9993.8 | 9779.0 | 9626.5 | 9612.6 |
| 15° | 15801.6 | 15559.0 | 14637.3 | 12835.3 | 11199.7 | 10174.0 | 9446.3 | 9037.4 | 8940.4 | 8954.2 | 9016.6 |
| 17.5° | 15947.1 | 15780.8 | 14166.0 | 12086.8 | 10291.8 | 9085.9 | 8746.3 | 8684.0 | 8774.0 | 8878.0 | 8905.7 |
| 20° | 16175.9 | 15912.5 | 13971.9 | 11068.1 | 9169.1 | 8406.7 | 8385.9 | 8607.7 | 8774.0 | 8926.5 | 8947.3 |
| 22.5° | 16654.1 | 15988.7 | 13341.3 | 10104.7 | 8399.8 | 8205.7 | 8406.7 | 8593.9 | 8850.3 | 8975.0 | 8864.1 |
| 25° | 16792.7 | 15822.4 | 12454.2 | 8947.3 | 7914.7 | 8081.0 | 8295.8 | 8552.3 | 8732.5 | 8801.8 | 8850.3 |
| 27.5° | 16910.5 | 15566.0 | 11255.2 | 8178.0 | 7762.2 | 8074.1 | 8295.8 | 8510.7 | 8607.7 | 8670.1 | 8725.5 |
| 30° | 17243.2 | 15489.7 | 10215.6 | 7665.2 | 7665.2 | 7935.5 | 8219.6 | 8275.1 | 8406.7 | 8483.0 | 8580.0 |
| 32.5° | 17409.5 | 14963.0 | 9148.3 | 7339.4 | 7568.1 | 8004.8 | 8025.6 | 8129.5 | 8136.4 | 8198.8 | 8094.9 |
| 35° | 17846.1 | 14588.8 | 8157.2 | 7103.8 | 7609.7 | 7935.5 | 8039.4 | 7977.0 | 7637.4 | 7471.1 | 7505.8 |
| 37.5° | 18164.9 | 14401.6 | 7443.4 | 7076.1 | 7616.7 | 8011.7 | 8067.1 | 7595.9 | 7242.4 | 6965.2 | 7034.5 |
| 40° | 19024.3 | 13937.3 | 6902.8 | 7027.6 | 7679.0 | 8094.9 | 7942.4 | 7429.5 | 6791.9 | 6507.8 | 6459.3 |
| 42.5° | 19682.7 | 13604.6 | 6563.2 | 6972.1 | 7727.5 | 8212.7 | 7880.0 | 7096.9 | 6445.4 | 6182.0 | 6251.3 |
| 45° | 20445.1 | 13528.4 | 6383.0 | 6986.0 | 7810.7 | 8275.1 | 7803.8 | 6840.4 | 6147.4 | 6043.4 | 6022.6 |
| 47.5° | 20715.3 | 12980.9 | 6189.0 | 6868.2 | 7789.9 | 8254.3 | 7547.3 | 6646.4 | 6036.5 | 6050.4 | 6105.8 |
| 50° | 20264.9 | 12419.5 | 6043.4 | 6625.6 | 7651.3 | 8067.1 | 7145.4 | 6389.9 | 5974.1 | 6147.4 | 6244.4 |
| 52.5° | 19689.6 | 11844.3 | 5745.4 | 6299.9 | 7367.2 | 7776.1 | 6958.3 | 6376.1 | 5911.7 | 5856.3 | 5877.1 |
| 55° | 19862.9 | 11373.0 | 5329.6 | 5856.3 | 6909.7 | 7235.5 | 6750.3 | 6244.4 | 5759.3 | 5551.4 | 5620.7 |
| 56° | 19301.5 | 10887.9 | 5059.3 | 5579.1 | 6597.9 | 6888.9 | 6646.4 | 6126.6 | 5634.5 | 5495.9 | 5495.9 |
| 57.5° | 17714.4 | 9259.2 | 4705.8 | 5135.5 | 5939.5 | 6286.0 | 6445.4 | 6057.3 | 5495.9 | 5253.3 | 5260.3 |
| 60° | 13064.0 | 6584.0 | 4220.7 | 4525.6 | 4920.7 | 5197.9 | 5939.5 | 5863.2 | 5149.4 | 4983.0 | 4920.7 |
| 62.5° | 8053.3 | 4809.8 | 3874.2 | 3992.0 | 4193.0 | 4421.7 | 5184.0 | 5308.8 | 4782.1 | 4601.9 | 4560.3 |
| 65° | 4511.8 | 3680.1 | 3610.8 | 3659.3 | 3756.3 | 3874.2 | 4303.9 | 4581.1 | 4220.7 | 3943.5 | 3929.6 |
| 67.5° | 3298.9 | 3292.0 | 3347.4 | 3389.0 | 3430.6 | 3430.6 | 3534.6 | 3645.5 | 3596.9 | 3375.2 | 3354.4 |
| 70° | 2931.6 | 2952.4 | 2994.0 | 3000.9 | 3014.8 | 2966.3 | 2883.1 | 2848.4 | 2903.9 | 2765.3 | 2737.6 |
| 72.5° | 2418.8 | 2488.1 | 2536.6 | 2543.5 | 2467.3 | 2404.9 | 2294.0 | 2176.2 | 2134.6 | 2106.9 | 2100.0 |
| 75° | 1857.4 | 1905.9 | 1926.7 | 1919.8 | 1892.0 | 1801.9 | 1670.3 | 1552.4 | 1476.2 | 1393.0 | 1434.6 |
| 77.5° | 1254.4 | 1323.7 | 1358.4 | 1358.4 | 1316.8 | 1178.2 | 1115.8 | 1025.7 | 949.5 | 859.4 | 873.2 |
| 80° | 880.2 | 928.7 | 984.1 | 977.2 | 907.9 | 838.6 | 748.5 | 665.3 | 603.0 | 533.7 | 526.7 |
| 82.5° | 658.4 | 686.1 | 713.8 | 700.0 | 651.5 | 582.2 | 519.8 | 443.6 | 374.2 | 325.7 | 325.7 |
| 85° | 235.6 | 256.4 | 311.9 | 325.7 | 353.5 | 353.5 | 298.0 | 249.5 | 201.0 | 166.3 | 166.3 |
| 87.5° | 69.3 | 69.3 | 76.2 | 76.2 | 69.3 | 76.2 | 62.4 | 69.3 | 76.2 | 48.5 | 48.5 |
| 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)