

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: P532482

Luminaire Tested: **GALN-SA7D-750-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532482
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-SA7D-750-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA 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: 45939 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

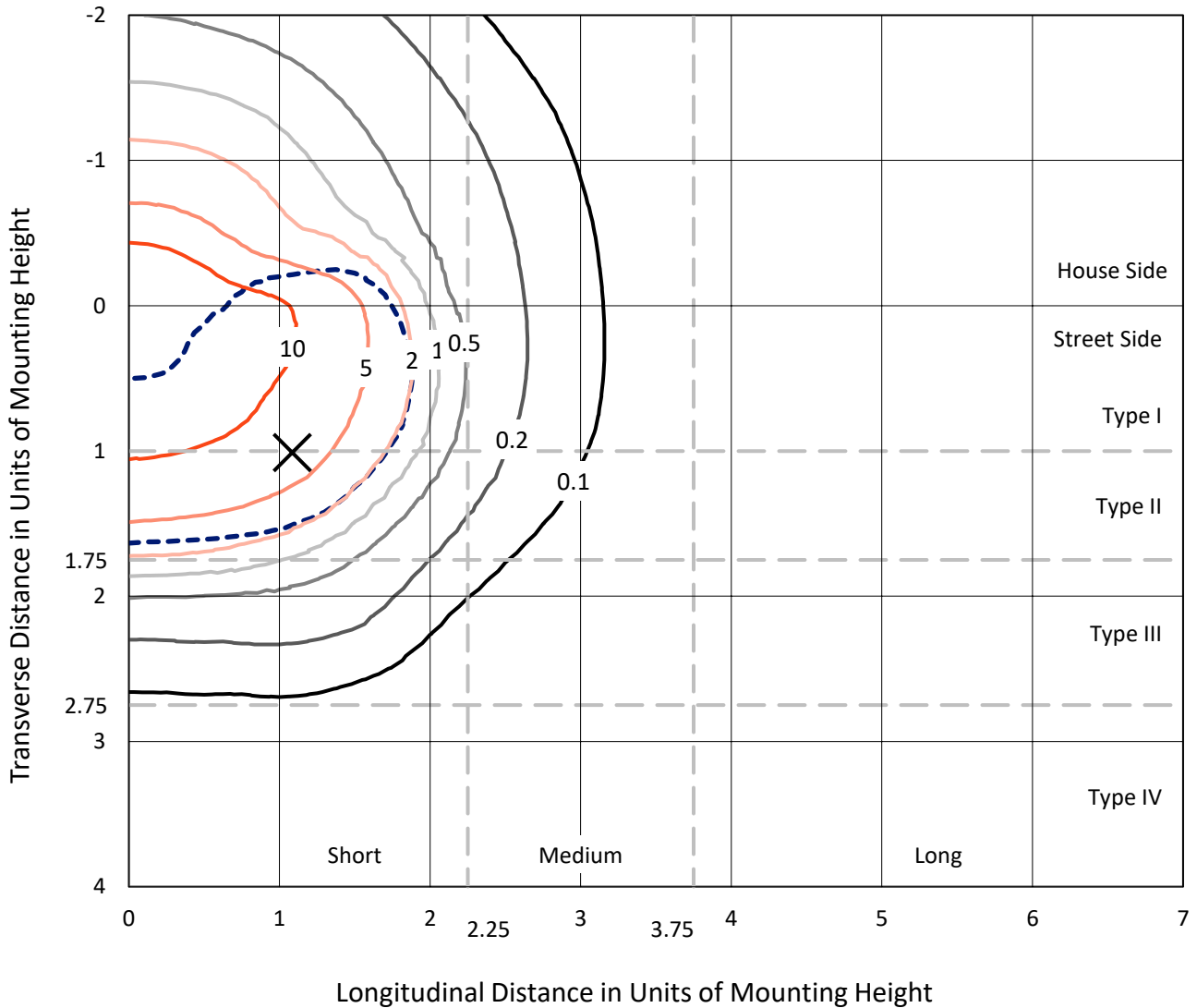
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532482
 CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

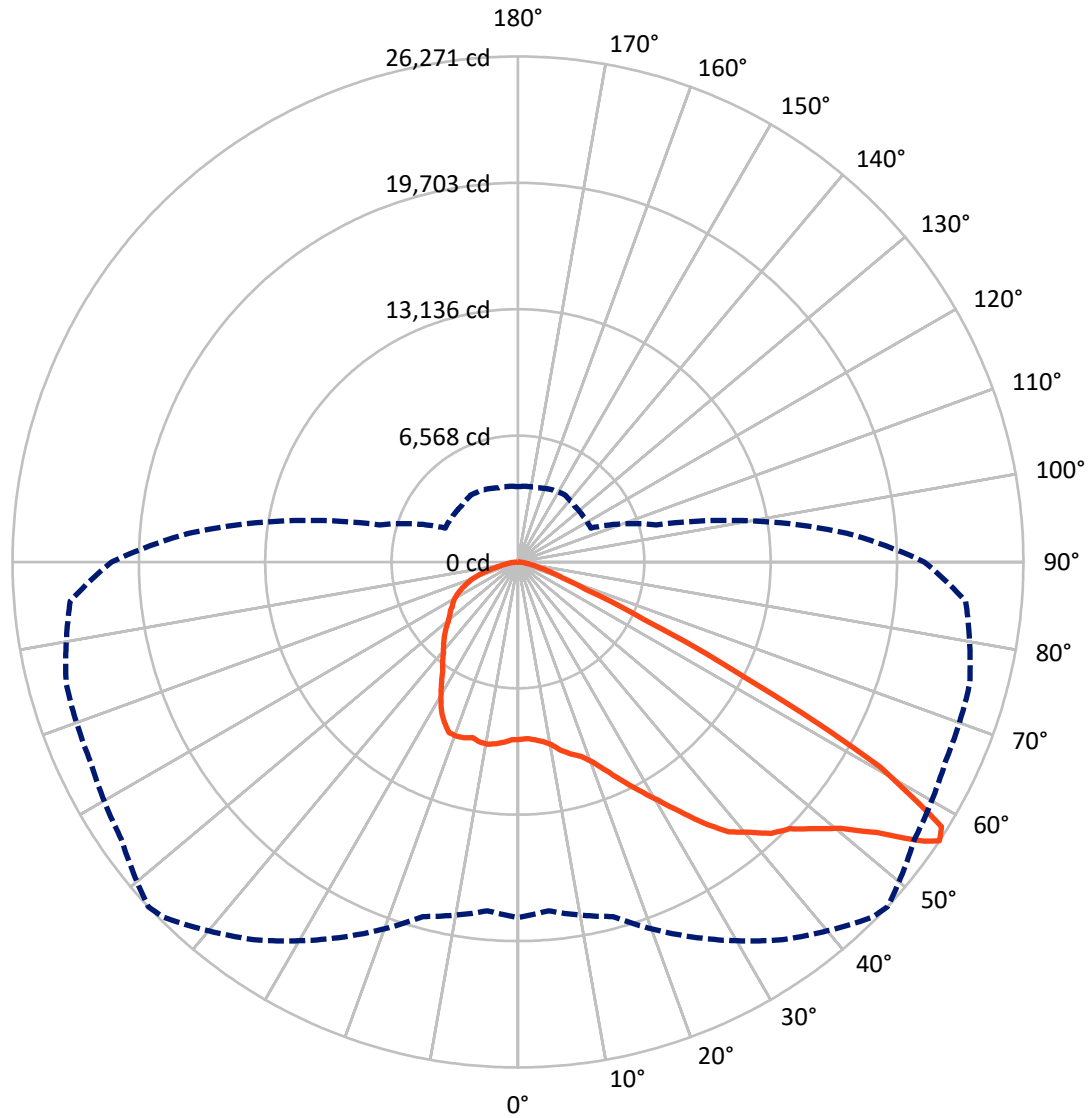
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

REPORT NUMBER: P532482
CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P532482

CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

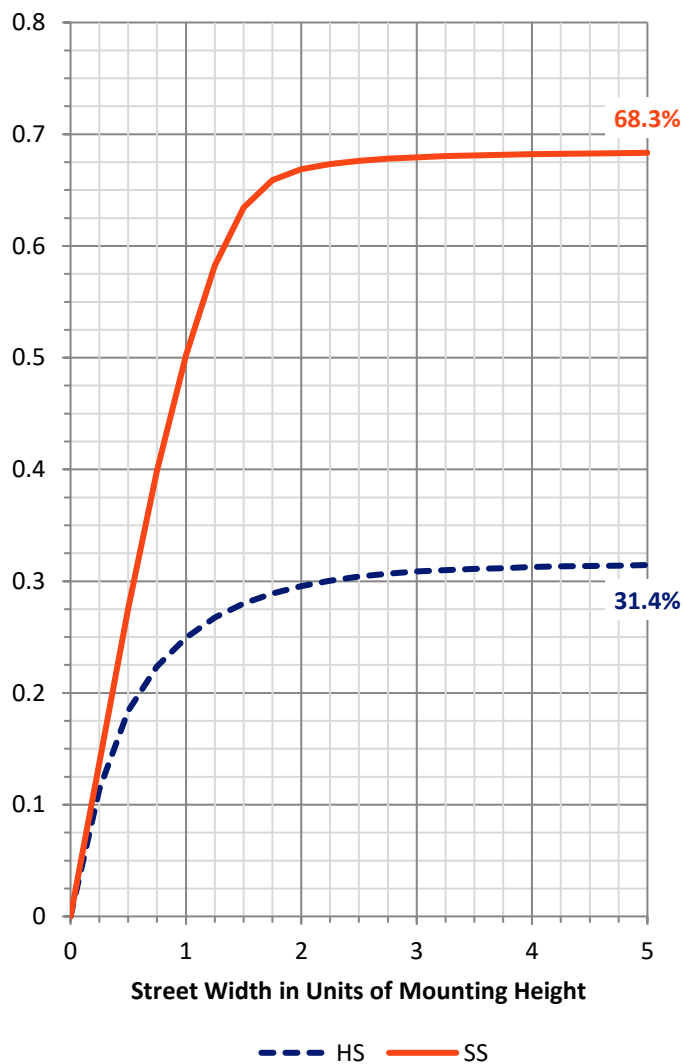
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14557.5 | 0.0 | 14557.5 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 31381.5 | 0.0 | 31381.5 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 45939.0 | 0.0 | 45939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 899.1 | 2.0 |
| 10°-20° | 2836.3 | 6.2 |
| 20°-30° | 5013.8 | 10.9 |
| 30°-40° | 7530.6 | 16.4 |
| 40°-50° | 10335.1 | 22.5 |
| 50°-60° | 12312.8 | 26.8 |
| 60°-70° | 5269.2 | 11.5 |
| 70°-80° | 1491.2 | 3.2 |
| 80°-90° | 250.9 | 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° | 45939.0 | 100.0 |
| 0°-180° | 45939.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P532482

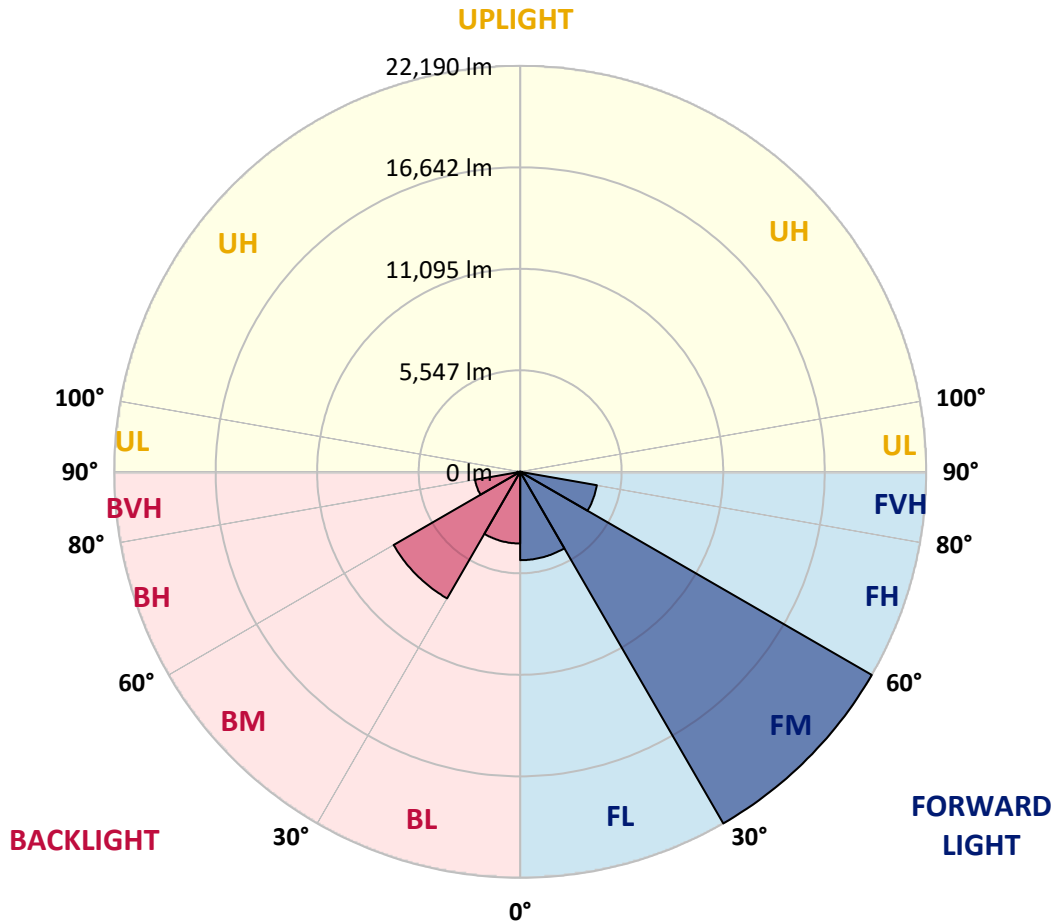
CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4829.8 | 10.5 | | | |
| FM (30°-60°) | 22189.6 | 48.3 | | | |
| FH (60°-80°) | 4255.6 | 9.3 | | | G2/5000 |
| FVH (80°-90°) | 106.5 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3919.5 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 7988.9 | 17.4 | B4/8500 | | |
| BH (60°-80°) | 2504.7 | 5.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 144.4 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P532482

CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 |
| 2.5° | 9192.6 | 9175.0 | 9163.3 | 9257.0 | 9221.9 | 9227.7 | 9192.6 | 9227.7 | 9251.2 | 9198.5 | 9274.6 |
| 5° | 9175.0 | 9227.7 | 9180.9 | 9210.2 | 9286.3 | 9262.9 | 9286.3 | 9356.6 | 9339.1 | 9321.5 | 9298.1 |
| 7.5° | 9339.1 | 9344.9 | 9380.1 | 9391.8 | 9415.2 | 9391.8 | 9427.0 | 9491.4 | 9473.8 | 9374.2 | 9385.9 |
| 10° | 9573.4 | 9585.1 | 9591.0 | 9655.4 | 9696.5 | 9702.3 | 9661.3 | 9602.7 | 9596.9 | 9731.6 | 9637.9 |
| 12.5° | 9842.9 | 9813.6 | 9883.9 | 9907.4 | 9954.3 | 10007.0 | 10059.7 | 9936.7 | 10012.8 | 10018.7 | 9907.4 |
| 15° | 10235.5 | 10264.8 | 10182.7 | 10182.7 | 10200.3 | 10206.2 | 10352.7 | 10294.1 | 10282.3 | 10217.9 | 10264.8 |
| 17.5° | 10821.4 | 10622.2 | 10616.3 | 10534.3 | 10522.6 | 10569.4 | 10622.2 | 10669.0 | 10827.2 | 10698.3 | 10446.4 |
| 20° | 11249.1 | 11295.9 | 11126.0 | 11026.4 | 11044.0 | 11149.5 | 11096.7 | 11307.7 | 11419.0 | 11208.1 | 10962.0 |
| 22.5° | 12004.9 | 11846.7 | 11887.7 | 11665.0 | 11682.6 | 11793.9 | 11788.1 | 12004.9 | 12069.3 | 11735.4 | 11378.0 |
| 25° | 12514.6 | 12473.6 | 12508.7 | 12333.0 | 12356.4 | 12444.3 | 12584.9 | 12942.3 | 12836.8 | 12467.7 | 11641.6 |
| 27.5° | 13258.7 | 13176.6 | 13147.3 | 13082.9 | 13059.5 | 13293.8 | 13457.9 | 13838.7 | 13762.5 | 13223.5 | 12110.3 |
| 30° | 14020.3 | 13967.6 | 13996.9 | 13733.2 | 13827.0 | 14325.0 | 14371.9 | 14893.3 | 14858.1 | 13909.0 | 12631.8 |
| 32.5° | 14547.6 | 14576.9 | 14629.6 | 14483.2 | 14899.2 | 15297.6 | 15455.7 | 16047.5 | 16076.8 | 15086.6 | 13639.5 |
| 35° | 15397.2 | 15297.6 | 15326.9 | 15496.8 | 15690.1 | 16416.6 | 16674.4 | 17066.9 | 17313.0 | 16322.9 | 14606.2 |
| 37.5° | 15930.3 | 16035.8 | 15912.7 | 16182.3 | 16686.1 | 17559.1 | 17793.4 | 18197.7 | 18455.5 | 17541.5 | 15924.5 |
| 40° | 16762.3 | 16592.4 | 16680.3 | 16873.6 | 17389.2 | 18525.8 | 18461.4 | 18877.3 | 18959.4 | 18578.5 | 17154.8 |
| 42.5° | 17658.7 | 17576.7 | 17453.6 | 17893.0 | 18326.6 | 19152.7 | 19281.6 | 19088.3 | 19504.2 | 19592.1 | 18912.5 |
| 45° | 18730.9 | 18830.5 | 18848.0 | 18859.8 | 19240.6 | 19961.2 | 19785.5 | 19615.6 | 20096.0 | 20734.6 | 20002.2 |
| 47.5° | 19726.9 | 19410.5 | 19639.0 | 19955.4 | 20494.4 | 20500.3 | 20705.3 | 20301.0 | 20810.8 | 21379.1 | 20986.5 |
| 50° | 20060.8 | 19908.5 | 20213.2 | 20810.8 | 21642.7 | 21730.6 | 21754.1 | 21179.9 | 21443.5 | 21894.7 | 21326.4 |
| 52.5° | 19931.9 | 19879.2 | 20658.4 | 21584.1 | 22802.8 | 23248.1 | 23365.2 | 22656.3 | 22802.8 | 22597.7 | 22076.3 |
| 55° | 19316.8 | 19474.9 | 20260.0 | 22146.6 | 24015.6 | 25392.4 | 25615.1 | 24718.7 | 23787.1 | 23945.3 | 23371.1 |
| 56° | 18473.1 | 18197.7 | 19076.5 | 21508.0 | 23962.9 | 26089.6 | 26271.3 | 25152.2 | 24519.4 | 24314.4 | 23359.4 |
| 57.5° | 15672.5 | 15315.1 | 16469.3 | 19351.9 | 22632.9 | 25826.0 | 25960.7 | 25333.8 | 24396.4 | 23980.4 | 21654.5 |
| 60° | 9175.0 | 9350.8 | 10815.5 | 13346.5 | 17459.5 | 21174.0 | 21625.2 | 22082.2 | 21455.2 | 19592.1 | 16117.8 |
| 62.5° | 4429.3 | 4318.0 | 5366.7 | 7651.7 | 10639.7 | 13516.5 | 13381.7 | 14664.8 | 15367.9 | 13920.7 | 10176.9 |
| 65° | 2320.1 | 2308.4 | 2929.4 | 4177.4 | 5847.2 | 7101.0 | 7224.0 | 7915.4 | 8882.1 | 7171.3 | 5167.5 |
| 67.5° | 1704.9 | 1751.8 | 2062.3 | 2935.3 | 3761.4 | 3837.6 | 3820.0 | 4165.7 | 4259.4 | 3603.2 | 3175.5 |
| 70° | 1335.8 | 1359.3 | 1587.8 | 2232.2 | 2800.5 | 2507.6 | 2454.9 | 2495.9 | 2771.3 | 2888.4 | 2747.8 |
| 72.5° | 966.7 | 990.2 | 1183.5 | 1505.7 | 1751.8 | 1710.8 | 1745.9 | 1974.4 | 2314.3 | 2437.3 | 2290.8 |
| 75° | 644.5 | 662.1 | 767.5 | 919.8 | 1037.0 | 1119.0 | 1183.5 | 1447.1 | 1763.5 | 1833.8 | 1763.5 |
| 77.5° | 445.3 | 462.9 | 533.2 | 650.3 | 662.1 | 714.8 | 738.2 | 861.3 | 1054.6 | 1142.5 | 1095.6 |
| 80° | 251.9 | 251.9 | 287.1 | 334.0 | 410.1 | 480.4 | 492.1 | 591.7 | 679.6 | 738.2 | 749.9 |
| 82.5° | 117.2 | 123.0 | 152.3 | 205.1 | 269.5 | 334.0 | 345.7 | 410.1 | 474.6 | 533.2 | 550.7 |
| 85° | 58.6 | 64.4 | 87.9 | 123.0 | 164.0 | 199.2 | 193.3 | 199.2 | 210.9 | 199.2 | 205.1 |
| 87.5° | 17.6 | 17.6 | 23.4 | 29.3 | 23.4 | 29.3 | 29.3 | 35.2 | 41.0 | 46.9 | 52.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P532482

CATALOG NUMBER: GALN-SA7D-750-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 | 9227.7 |
| 2.5° | 9280.5 | 9298.1 | 9180.9 | 9292.2 | 9251.2 | 9245.3 | 9327.4 | 9315.6 | 9344.9 | 9333.2 | 9262.9 |
| 5° | 9286.3 | 9245.3 | 9368.4 | 9257.0 | 9309.8 | 9421.1 | 9344.9 | 9520.7 | 9432.8 | 9491.4 | 9362.5 |
| 7.5° | 9468.0 | 9479.7 | 9456.2 | 9503.1 | 9479.7 | 9532.4 | 9491.4 | 9532.4 | 9462.1 | 9468.0 | 9585.1 |
| 10° | 9626.2 | 9591.0 | 9632.0 | 9573.4 | 9614.4 | 9596.9 | 9503.1 | 9473.8 | 9497.3 | 9468.0 | 9544.1 |
| 12.5° | 9919.1 | 9854.7 | 9825.4 | 9755.0 | 9708.2 | 9532.4 | 9385.9 | 9303.9 | 9415.2 | 9432.8 | 9397.7 |
| 15° | 10217.9 | 10223.8 | 10089.0 | 9930.8 | 9637.9 | 9374.2 | 9409.4 | 9438.7 | 9438.7 | 9485.5 | 9397.7 |
| 17.5° | 10405.4 | 10405.4 | 10282.3 | 9966.0 | 9667.2 | 9514.8 | 9479.7 | 9385.9 | 9303.9 | 9292.2 | 9286.3 |
| 20° | 10733.5 | 10633.9 | 10352.7 | 9960.1 | 9655.4 | 9585.1 | 9321.5 | 9098.9 | 8928.9 | 8870.4 | 8864.5 |
| 22.5° | 11108.5 | 10856.5 | 10464.0 | 9971.8 | 9637.9 | 9538.3 | 9046.1 | 8712.2 | 8407.5 | 8278.6 | 8296.2 |
| 25° | 11454.1 | 11049.9 | 10528.4 | 9919.1 | 9573.4 | 9093.0 | 8542.3 | 8079.4 | 7763.0 | 7657.6 | 7604.8 |
| 27.5° | 11694.3 | 11254.9 | 10528.4 | 9966.0 | 9333.2 | 8595.0 | 8032.5 | 7440.8 | 7165.4 | 7095.1 | 7106.8 |
| 30° | 12016.6 | 11512.7 | 10710.0 | 9866.4 | 8852.8 | 7950.5 | 7276.7 | 6890.1 | 6726.0 | 6667.4 | 6708.4 |
| 32.5° | 12772.4 | 12186.5 | 10962.0 | 9626.2 | 8284.5 | 7306.0 | 6761.2 | 6544.4 | 6304.2 | 6187.0 | 6146.0 |
| 35° | 13592.6 | 12825.1 | 11208.1 | 9221.9 | 7645.8 | 6720.1 | 6380.3 | 6181.1 | 5894.0 | 5765.1 | 5788.6 |
| 37.5° | 14752.7 | 13645.4 | 11225.6 | 8554.0 | 6954.5 | 6392.0 | 6081.5 | 5771.0 | 5536.6 | 5337.4 | 5278.9 |
| 40° | 16317.0 | 14764.4 | 11184.6 | 7850.9 | 6397.9 | 6005.4 | 5776.9 | 5390.2 | 5126.5 | 4985.9 | 5015.2 |
| 42.5° | 17693.8 | 16076.8 | 11014.7 | 7054.1 | 5894.0 | 5741.7 | 5483.9 | 5103.1 | 4845.3 | 4698.8 | 4687.1 |
| 45° | 18853.9 | 17043.5 | 10692.5 | 6374.5 | 5472.2 | 5448.8 | 5150.0 | 4857.0 | 4652.0 | 4517.2 | 4575.8 |
| 47.5° | 19926.1 | 17822.7 | 10206.2 | 5694.8 | 5085.5 | 5132.4 | 4845.3 | 4663.7 | 4534.8 | 4411.7 | 4405.9 |
| 50° | 20312.8 | 17811.0 | 9778.5 | 5132.4 | 4775.0 | 4751.6 | 4739.8 | 4546.5 | 4411.7 | 4306.3 | 4353.2 |
| 52.5° | 20957.2 | 18010.2 | 9315.6 | 4745.7 | 4493.8 | 4499.6 | 4540.6 | 4400.0 | 4247.7 | 4183.2 | 4241.8 |
| 55° | 21882.9 | 18039.5 | 8296.2 | 4294.6 | 4259.4 | 4300.4 | 4300.4 | 4206.7 | 4077.8 | 4025.1 | 3995.8 |
| 56° | 21127.2 | 17166.5 | 7440.8 | 4177.4 | 4142.2 | 4142.2 | 4253.6 | 4148.1 | 3989.9 | 3948.9 | 3913.7 |
| 57.5° | 19486.7 | 15039.8 | 6228.0 | 4036.8 | 3984.0 | 4066.1 | 4124.7 | 4013.3 | 3866.9 | 3808.3 | 3843.4 |
| 60° | 13440.3 | 10176.9 | 4681.3 | 3732.1 | 3732.1 | 3866.9 | 3913.7 | 3749.7 | 3685.2 | 3679.4 | 3632.5 |
| 62.5° | 7845.1 | 5929.2 | 3661.8 | 3456.7 | 3468.5 | 3579.8 | 3614.9 | 3521.2 | 3439.2 | 3538.8 | 3585.6 |
| 65° | 4159.8 | 3538.8 | 3140.4 | 3163.8 | 3169.7 | 3257.5 | 3409.9 | 3404.0 | 3398.2 | 3427.4 | 3433.3 |
| 67.5° | 3011.5 | 2941.2 | 2853.3 | 2829.8 | 2841.6 | 2906.0 | 3058.3 | 3175.5 | 3169.7 | 3099.4 | 3046.6 |
| 70° | 2683.4 | 2583.8 | 2531.0 | 2536.9 | 2490.0 | 2566.2 | 2689.2 | 2765.4 | 2630.6 | 2548.6 | 2513.5 |
| 72.5° | 2232.2 | 2202.9 | 2167.8 | 2173.6 | 2079.9 | 2062.3 | 1921.7 | 1921.7 | 1886.6 | 1863.1 | 1904.1 |
| 75° | 1704.9 | 1693.2 | 1710.8 | 1681.5 | 1581.9 | 1476.4 | 1394.4 | 1318.2 | 1201.1 | 1154.2 | 1130.8 |
| 77.5° | 1078.0 | 1113.2 | 1154.2 | 1089.8 | 1048.7 | 972.6 | 890.6 | 814.4 | 720.6 | 667.9 | 667.9 |
| 80° | 732.4 | 761.7 | 790.9 | 779.2 | 732.4 | 662.1 | 597.6 | 515.6 | 451.1 | 410.1 | 404.3 |
| 82.5° | 556.6 | 580.0 | 621.0 | 574.2 | 527.3 | 468.7 | 416.0 | 357.4 | 298.8 | 251.9 | 251.9 |
| 85° | 199.2 | 228.5 | 251.9 | 275.4 | 292.9 | 298.8 | 257.8 | 210.9 | 169.9 | 134.8 | 128.9 |
| 87.5° | 52.7 | 58.6 | 64.4 | 58.6 | 58.6 | 58.6 | 64.4 | 58.6 | 52.7 | 41.0 | 41.0 |
| 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)