

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: P531568

Luminaire Tested: **GALN-SA6D-760-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531568
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-SA6D-760-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA 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: 38478 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

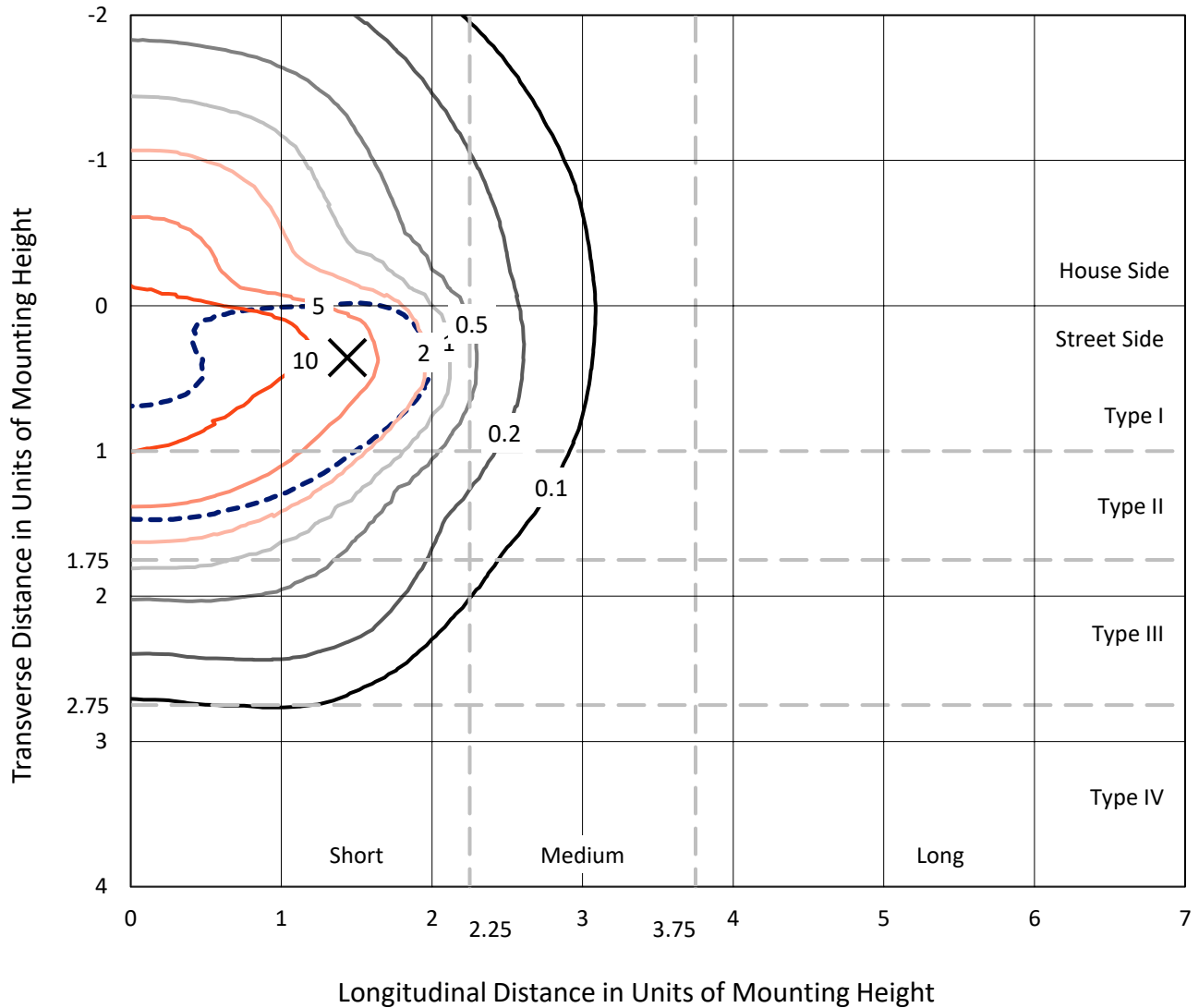
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

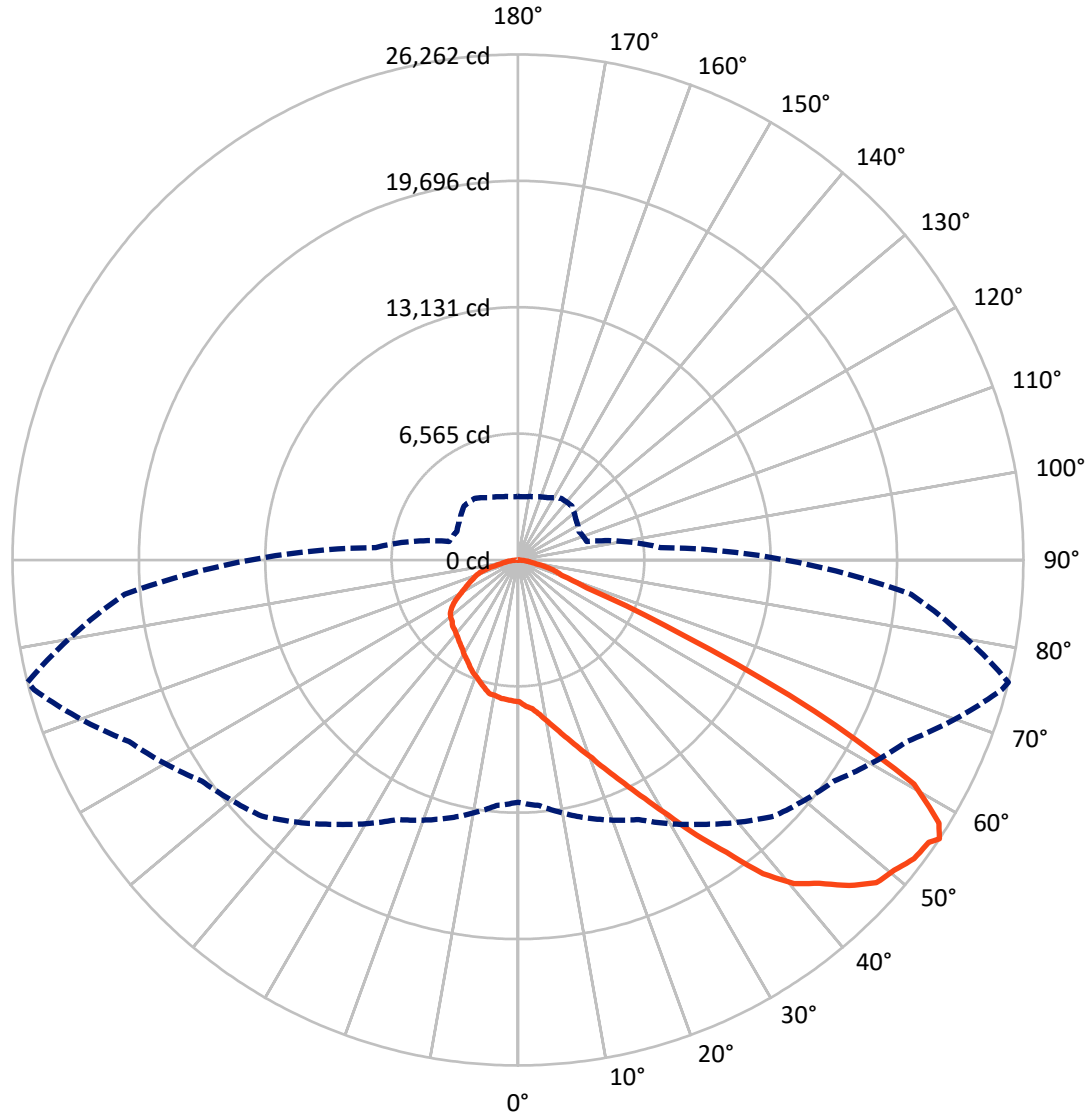
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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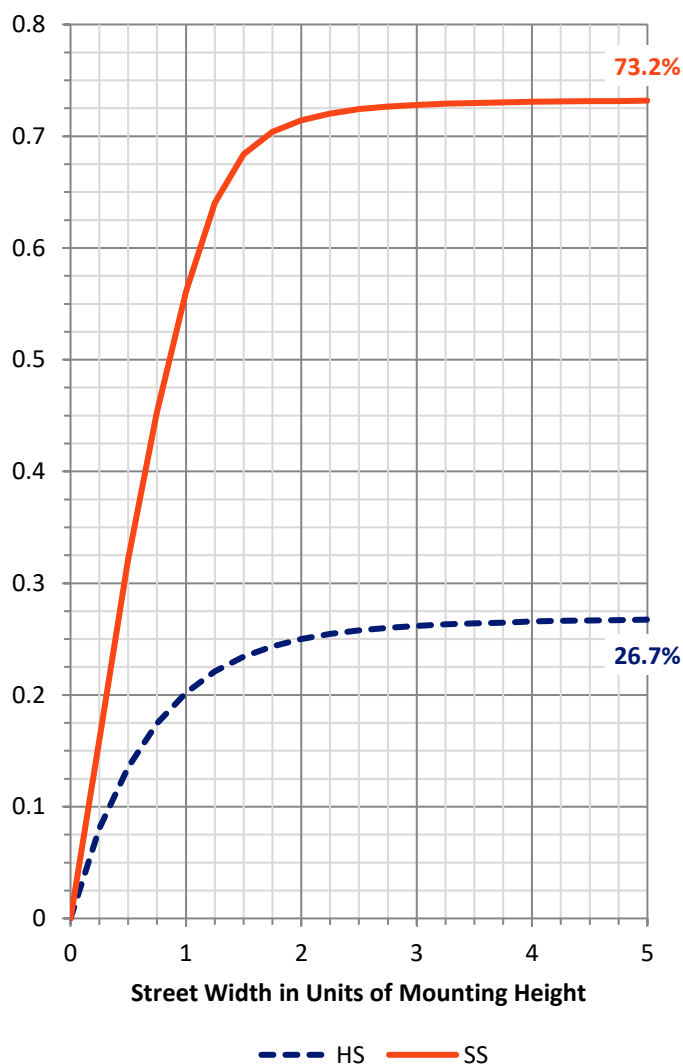
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10345.6 | 0.0 | 10345.6 |
| | % Fixture | 26.9 | 0.0 | 26.9 |
| Street Side | Lumens | 28132.4 | 0.0 | 28132.4 |
| | % Fixture | 73.1 | 0.0 | 73.1 |
| Total | Lumens | 38478.0 | 0.0 | 38478.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 730.1 | 1.9 |
| 10°-20° | 2293.5 | 6.0 |
| 20°-30° | 4011.1 | 10.4 |
| 30°-40° | 6280.2 | 16.3 |
| 40°-50° | 9135.9 | 23.7 |
| 50°-60° | 10040.9 | 26.1 |
| 60°-70° | 4481.8 | 11.6 |
| 70°-80° | 1294.5 | 3.4 |
| 80°-90° | 210.0 | 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° | 38478.0 | 100.0 |
| 0°-180° | 38478.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P531568

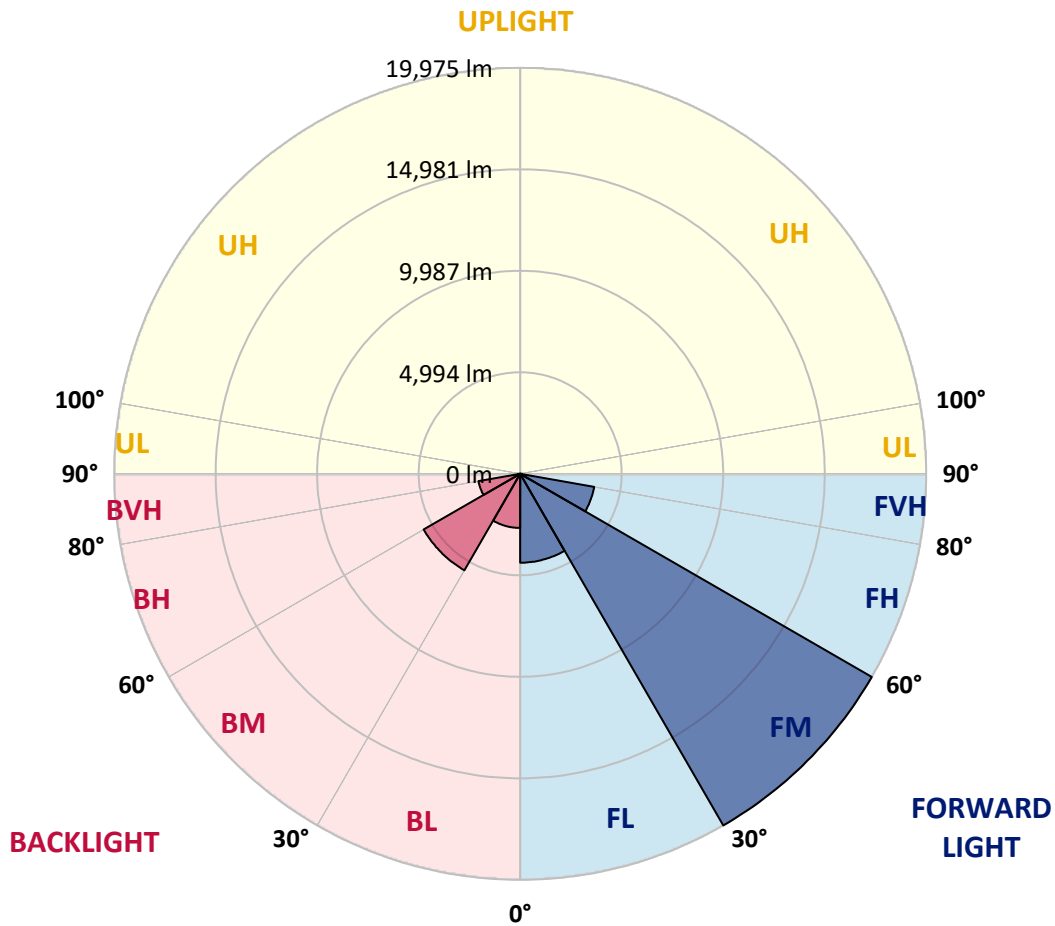
CATALOG NUMBER: GALN-SA6D-760-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4372.6 | 11.4 | | | |
| FM (30°-60°) | 19974.6 | 51.9 | | | |
| FH (60°-80°) | 3694.8 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 90.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2662.1 | 6.9 | B4/5000 | | |
| BM (30°-60°) | 5482.3 | 14.2 | B4/8500 | | |
| BH (60°-80°) | 2081.6 | 5.4 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 119.6 | 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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 |
| 2.5° | 8110.5 | 7980.8 | 7970.8 | 7935.9 | 7955.8 | 7866.1 | 7771.3 | 7646.6 | 7516.9 | 7596.7 | 7407.2 |
| 5° | 8679.1 | 8504.5 | 8574.4 | 8454.6 | 8469.6 | 8349.9 | 8155.4 | 8010.7 | 7851.1 | 7756.3 | 7621.6 |
| 7.5° | 8878.6 | 8893.6 | 8943.5 | 8923.5 | 8823.8 | 8823.8 | 8694.1 | 8439.7 | 8160.3 | 8105.5 | 7881.0 |
| 10° | 9148.0 | 9153.0 | 9098.1 | 9113.1 | 9252.7 | 9187.9 | 9073.2 | 8963.4 | 8604.3 | 8539.4 | 8140.4 |
| 12.5° | 9242.7 | 9153.0 | 9242.7 | 9322.6 | 9487.2 | 9576.9 | 9552.0 | 9472.2 | 9088.1 | 9043.2 | 8459.6 |
| 15° | 9257.7 | 9202.8 | 9277.7 | 9457.2 | 9601.9 | 9981.0 | 10170.5 | 10115.6 | 9606.9 | 9611.9 | 8818.8 |
| 17.5° | 9187.9 | 9262.7 | 9292.6 | 9447.3 | 9781.4 | 10135.6 | 10684.3 | 10759.1 | 10340.1 | 10275.3 | 9272.7 |
| 20° | 9282.6 | 9227.8 | 9267.7 | 9407.3 | 9851.3 | 10404.9 | 11123.2 | 11617.0 | 11028.4 | 10983.6 | 9741.5 |
| 22.5° | 9646.8 | 9572.0 | 9562.0 | 9651.8 | 9971.0 | 10544.6 | 11587.1 | 12475.0 | 11866.4 | 11891.4 | 10325.1 |
| 25° | 9931.1 | 9971.0 | 9936.1 | 9931.1 | 10130.6 | 10754.1 | 12200.6 | 13497.5 | 13003.7 | 12859.0 | 11013.5 |
| 27.5° | 10419.9 | 10514.7 | 10444.8 | 10539.6 | 10494.7 | 11068.3 | 12639.6 | 14629.8 | 14230.7 | 14036.2 | 11637.0 |
| 30° | 11098.3 | 11148.2 | 11083.3 | 11083.3 | 10948.6 | 11507.3 | 13038.6 | 15811.9 | 15647.3 | 15383.0 | 12370.2 |
| 32.5° | 11991.1 | 12065.9 | 11936.3 | 11861.4 | 11841.5 | 12160.7 | 13756.9 | 16979.1 | 17258.4 | 17034.0 | 13342.9 |
| 35° | 13173.3 | 13128.4 | 12973.8 | 12903.9 | 12634.6 | 13163.3 | 14824.3 | 18320.9 | 19054.1 | 18655.1 | 14520.0 |
| 37.5° | 14215.8 | 14145.9 | 14136.0 | 13746.9 | 13811.7 | 14245.7 | 15732.1 | 19338.4 | 20794.9 | 20680.2 | 15762.0 |
| 40° | 15188.4 | 15253.3 | 15358.0 | 15138.5 | 15038.8 | 15517.6 | 16789.6 | 20116.6 | 22146.7 | 22101.8 | 16719.7 |
| 42.5° | 16230.9 | 16171.1 | 16355.6 | 16171.1 | 16021.4 | 16699.8 | 17936.8 | 20655.3 | 23333.8 | 22964.7 | 17722.3 |
| 45° | 17742.3 | 17552.7 | 17617.6 | 17632.5 | 17522.8 | 17772.2 | 18410.7 | 21044.3 | 24166.8 | 24126.9 | 18455.6 |
| 47.5° | 19004.2 | 19009.2 | 18899.5 | 18814.7 | 18480.5 | 18729.9 | 18939.4 | 21288.7 | 25124.5 | 25059.7 | 18739.9 |
| 50° | 19473.1 | 19408.3 | 19727.5 | 19912.1 | 19932.0 | 19423.2 | 19353.4 | 21423.4 | 25628.3 | 25344.0 | 19024.2 |
| 52.5° | 17787.2 | 17847.0 | 18350.8 | 19448.2 | 20081.6 | 20136.5 | 19837.2 | 21702.7 | 25832.8 | 25772.9 | 19253.6 |
| 55° | 14315.5 | 14604.8 | 15432.8 | 16699.8 | 18201.2 | 19852.2 | 20361.0 | 21992.0 | 25942.5 | 25892.6 | 20271.2 |
| 56° | 12584.7 | 12809.2 | 13886.6 | 14879.2 | 16764.6 | 18819.7 | 20031.8 | 22301.3 | 26027.3 | 26261.8 | 20510.6 |
| 57.5° | 10130.6 | 10390.0 | 11163.1 | 12290.4 | 14515.0 | 16854.4 | 19123.9 | 21922.2 | 25698.1 | 25787.9 | 20685.2 |
| 60° | 6334.7 | 6359.7 | 7287.5 | 8030.7 | 9596.9 | 11881.4 | 14594.9 | 19074.1 | 23782.7 | 23653.0 | 18580.3 |
| 62.5° | 4155.0 | 4160.0 | 5003.0 | 5611.5 | 6324.8 | 6848.5 | 8589.3 | 12649.5 | 17547.7 | 17318.3 | 13228.1 |
| 65° | 2918.0 | 2982.8 | 3636.2 | 4449.3 | 4738.6 | 4464.2 | 4409.4 | 6668.9 | 9801.4 | 9472.2 | 7107.9 |
| 67.5° | 2134.9 | 2139.8 | 2718.5 | 3591.4 | 4010.3 | 3396.8 | 2758.4 | 3257.2 | 3880.7 | 3870.7 | 3292.1 |
| 70° | 1411.6 | 1471.5 | 1915.4 | 2683.5 | 3162.4 | 2728.4 | 2254.6 | 2329.4 | 2469.1 | 2469.1 | 2449.1 |
| 72.5° | 823.0 | 877.9 | 1172.2 | 1700.9 | 1775.7 | 1705.9 | 1785.7 | 1995.2 | 2085.0 | 2080.0 | 2055.1 |
| 75° | 468.9 | 493.8 | 558.7 | 708.3 | 882.9 | 1042.5 | 1311.8 | 1511.4 | 1601.1 | 1656.0 | 1591.2 |
| 77.5° | 274.3 | 289.3 | 329.2 | 404.0 | 458.9 | 563.6 | 713.3 | 852.9 | 972.7 | 957.7 | 967.7 |
| 80° | 144.7 | 144.7 | 184.6 | 239.4 | 319.2 | 399.0 | 473.9 | 553.7 | 618.5 | 633.5 | 648.4 |
| 82.5° | 84.8 | 89.8 | 119.7 | 174.6 | 229.4 | 284.3 | 364.1 | 419.0 | 478.8 | 483.8 | 493.8 |
| 85° | 44.9 | 49.9 | 74.8 | 114.7 | 154.6 | 174.6 | 179.6 | 169.6 | 184.6 | 174.6 | 199.5 |
| 87.5° | 15.0 | 15.0 | 24.9 | 20.0 | 20.0 | 24.9 | 29.9 | 29.9 | 39.9 | 39.9 | 39.9 |
| 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: P531568

CATALOG NUMBER: GALN-SA6D-760-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 | 7362.3 |
| 2.5° | 7402.2 | 7402.2 | 7317.4 | 7157.8 | 7132.8 | 7068.0 | 7008.1 | 7003.1 | 6958.2 | 6918.3 | 6898.4 |
| 5° | 7541.8 | 7387.2 | 7262.5 | 7117.9 | 6948.3 | 6868.5 | 6778.7 | 6678.9 | 6639.0 | 6678.9 | 6673.9 |
| 7.5° | 7701.5 | 7571.8 | 7197.7 | 6928.3 | 6733.8 | 6654.0 | 6554.2 | 6449.5 | 6459.4 | 6459.4 | 6389.6 |
| 10° | 7856.1 | 7681.5 | 7082.9 | 6738.8 | 6454.5 | 6394.6 | 6339.7 | 6379.6 | 6429.5 | 6439.5 | 6394.6 |
| 12.5° | 8115.5 | 7721.4 | 7028.1 | 6549.2 | 6369.7 | 6240.0 | 6274.9 | 6384.6 | 6489.4 | 6459.4 | 6494.4 |
| 15° | 8310.0 | 7756.3 | 6778.7 | 6354.7 | 6130.2 | 6190.1 | 6314.8 | 6389.6 | 6564.2 | 6544.2 | 6579.2 |
| 17.5° | 8499.5 | 7776.3 | 6534.3 | 6095.3 | 6000.6 | 6165.2 | 6259.9 | 6474.4 | 6529.3 | 6649.0 | 6693.9 |
| 20° | 8888.6 | 7816.2 | 6284.9 | 5935.7 | 5905.8 | 6095.3 | 6259.9 | 6359.7 | 6479.4 | 6584.1 | 6584.1 |
| 22.5° | 9088.1 | 7796.2 | 6120.3 | 5726.2 | 5821.0 | 5940.7 | 6090.3 | 6259.9 | 6259.9 | 6359.7 | 6364.7 |
| 25° | 9337.5 | 7716.4 | 5860.9 | 5626.5 | 5696.3 | 5811.0 | 5980.6 | 5920.7 | 5985.6 | 5985.6 | 6065.4 |
| 27.5° | 9621.8 | 7546.8 | 5636.4 | 5446.9 | 5586.5 | 5711.2 | 5736.2 | 5696.3 | 5621.5 | 5611.5 | 5581.6 |
| 30° | 9851.3 | 7337.3 | 5471.8 | 5387.0 | 5501.8 | 5571.6 | 5491.8 | 5407.0 | 5277.3 | 5267.3 | 5197.5 |
| 32.5° | 10165.5 | 7078.0 | 5267.3 | 5237.4 | 5367.1 | 5372.1 | 5347.1 | 5217.4 | 5027.9 | 4948.1 | 4868.3 |
| 35° | 10694.2 | 6928.3 | 5112.7 | 5157.6 | 5197.5 | 5182.5 | 5137.6 | 4998.0 | 4808.4 | 4773.5 | 4743.6 |
| 37.5° | 11083.3 | 6818.6 | 4953.1 | 5007.9 | 5042.9 | 5062.8 | 4928.1 | 4773.5 | 4778.5 | 4708.7 | 4688.7 |
| 40° | 11522.3 | 6748.7 | 4823.4 | 4848.3 | 4853.3 | 4918.2 | 4753.6 | 4678.7 | 4713.6 | 4668.8 | 4698.7 |
| 42.5° | 12085.9 | 6768.7 | 4688.7 | 4668.8 | 4763.5 | 4738.6 | 4658.8 | 4559.0 | 4579.0 | 4444.3 | 4464.2 |
| 45° | 12385.2 | 6903.4 | 4608.9 | 4519.1 | 4623.9 | 4618.9 | 4514.1 | 4419.4 | 4299.6 | 4040.3 | 4050.2 |
| 47.5° | 12584.7 | 6938.3 | 4419.4 | 4359.5 | 4469.2 | 4534.1 | 4414.4 | 4194.9 | 4025.3 | 3840.8 | 3795.9 |
| 50° | 12789.2 | 7003.1 | 4329.6 | 4204.9 | 4249.8 | 4404.4 | 4254.8 | 4045.3 | 3880.7 | 3716.1 | 3741.0 |
| 52.5° | 12968.8 | 7127.8 | 4155.0 | 3970.4 | 4050.2 | 4219.8 | 4140.0 | 3885.6 | 3706.1 | 3571.4 | 3531.5 |
| 55° | 13766.8 | 7407.2 | 3860.7 | 3621.3 | 3810.8 | 4025.3 | 3980.4 | 3671.2 | 3476.6 | 3406.8 | 3396.8 |
| 56° | 13891.5 | 7417.1 | 3706.1 | 3501.6 | 3676.1 | 3960.5 | 3905.6 | 3576.4 | 3401.8 | 3292.1 | 3297.1 |
| 57.5° | 13911.5 | 7297.4 | 3486.6 | 3391.8 | 3541.5 | 3865.7 | 3795.9 | 3501.6 | 3262.1 | 3162.4 | 3132.5 |
| 60° | 12240.5 | 5696.3 | 3212.3 | 3152.4 | 3327.0 | 3576.4 | 3551.4 | 3297.1 | 3027.7 | 2913.0 | 2967.9 |
| 62.5° | 8344.9 | 4174.9 | 2997.8 | 2987.8 | 3077.6 | 3322.0 | 3257.2 | 3027.7 | 2803.2 | 2728.4 | 2693.5 |
| 65° | 4858.3 | 3167.4 | 2788.3 | 2748.4 | 2823.2 | 2952.9 | 2997.8 | 2758.4 | 2523.9 | 2474.0 | 2459.1 |
| 67.5° | 2868.1 | 2618.7 | 2518.9 | 2454.1 | 2429.2 | 2509.0 | 2543.9 | 2404.2 | 2169.8 | 2099.9 | 2159.8 |
| 70° | 2399.2 | 2329.4 | 2334.4 | 2224.6 | 2164.8 | 2109.9 | 2080.0 | 1955.3 | 1760.8 | 1671.0 | 1646.0 |
| 72.5° | 2070.0 | 2040.1 | 2020.1 | 1920.4 | 1865.5 | 1740.8 | 1611.1 | 1486.4 | 1341.8 | 1266.9 | 1271.9 |
| 75° | 1581.2 | 1571.2 | 1581.2 | 1531.3 | 1436.5 | 1336.8 | 1217.1 | 1057.5 | 947.7 | 852.9 | 872.9 |
| 77.5° | 942.7 | 972.7 | 987.6 | 967.7 | 927.8 | 838.0 | 763.2 | 658.4 | 553.7 | 478.8 | 468.9 |
| 80° | 648.4 | 673.4 | 698.3 | 673.4 | 633.5 | 568.6 | 488.8 | 409.0 | 334.2 | 294.3 | 284.3 |
| 82.5° | 493.8 | 518.8 | 533.7 | 508.8 | 458.9 | 389.1 | 334.2 | 279.3 | 219.5 | 179.6 | 169.6 |
| 85° | 179.6 | 204.5 | 199.5 | 239.4 | 259.4 | 249.4 | 214.5 | 164.6 | 124.7 | 89.8 | 84.8 |
| 87.5° | 49.9 | 44.9 | 49.9 | 49.9 | 49.9 | 44.9 | 39.9 | 39.9 | 39.9 | 24.9 | 20.0 |
| 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)