

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642993

Luminaire Tested: GWS-SA6E-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17591.1 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

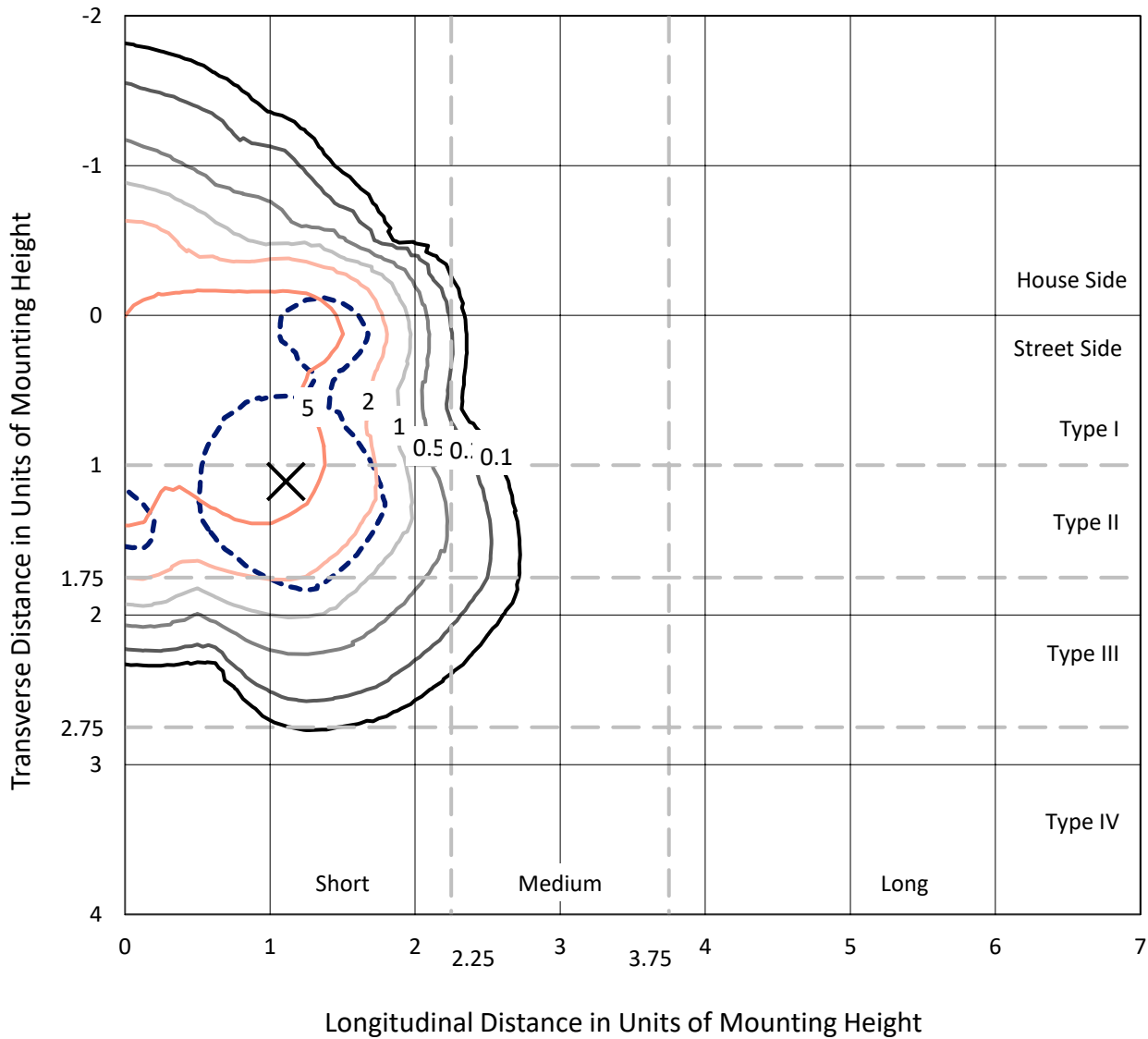
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

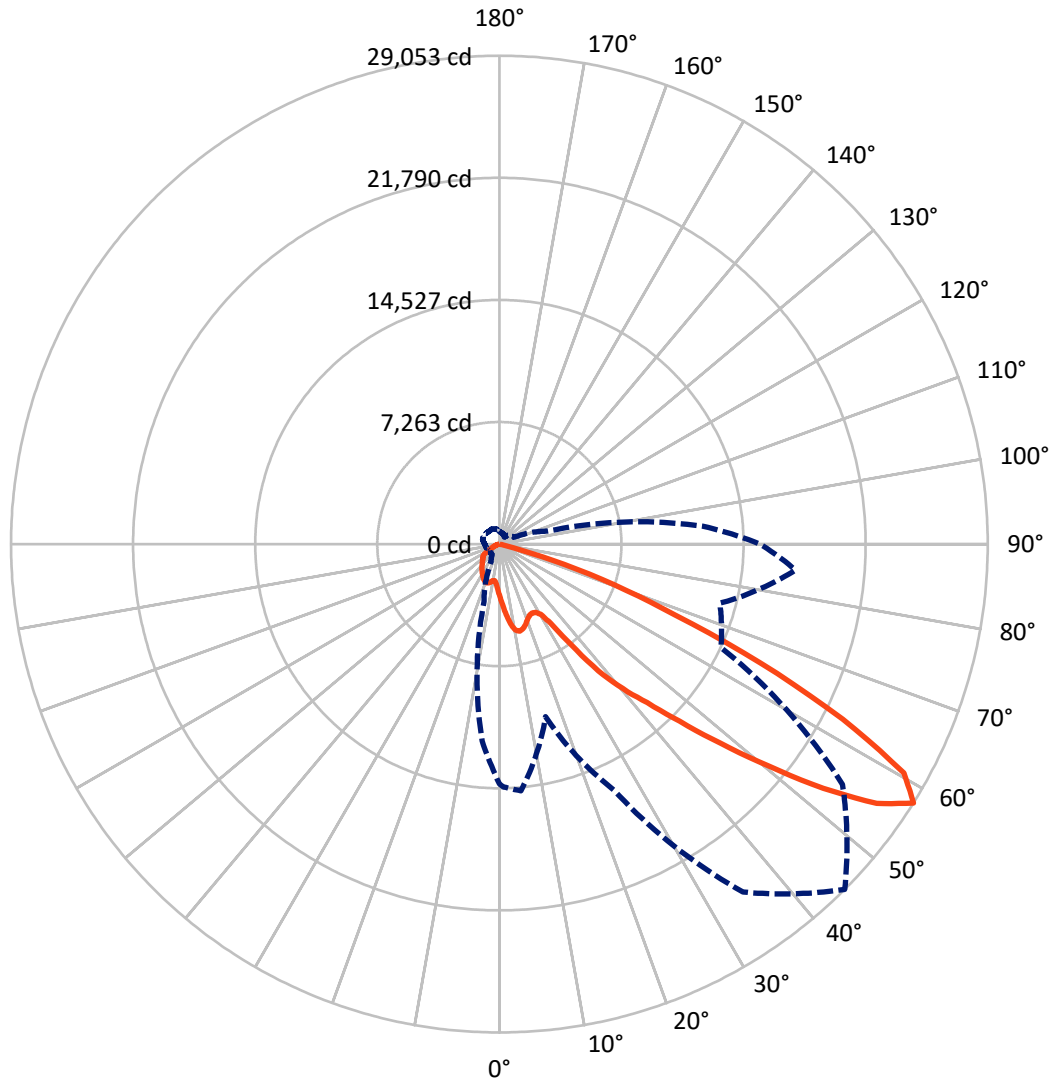
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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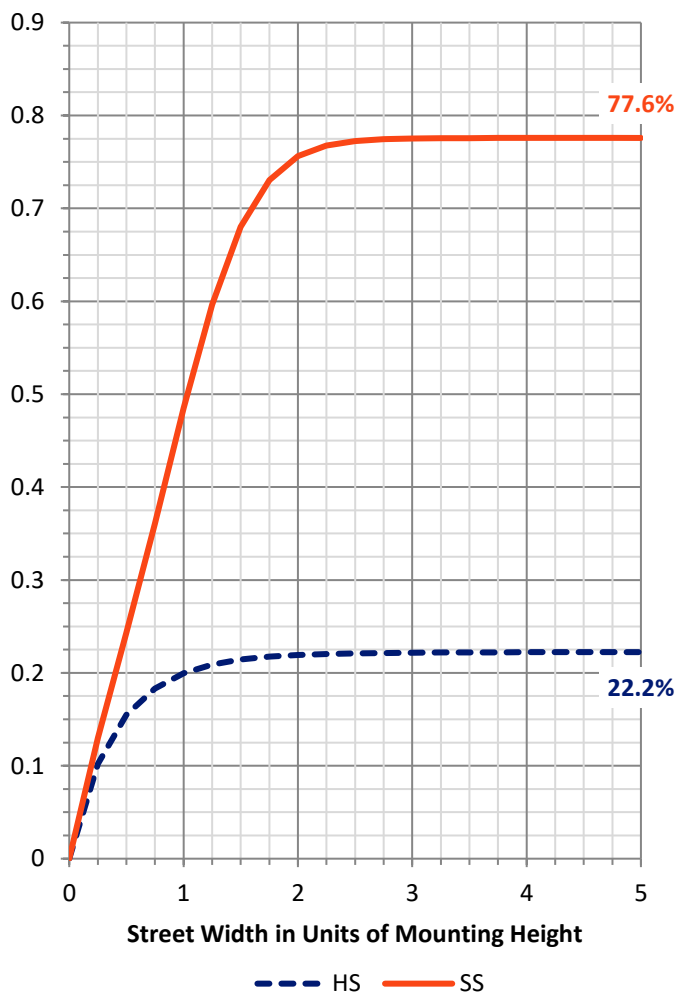
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3939.1 | 0.0 | 3939.1 |
| | % Fixture | 22.4 | 0.0 | 22.4 |
| Street Side | Lumens | 13652.0 | 0.0 | 13652.0 |
| | % Fixture | 77.6 | 0.0 | 77.6 |
| Total | Lumens | 17591.1 | 0.0 | 17591.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 304.2 | 1.7 |
| 10°-20° | 983.9 | 5.6 |
| 20°-30° | 1598.4 | 9.1 |
| 30°-40° | 2469.7 | 14.0 |
| 40°-50° | 3960.2 | 22.5 |
| 50°-60° | 5412.5 | 30.8 |
| 60°-70° | 2621.4 | 14.9 |
| 70°-80° | 240.0 | 1.4 |
| 80°-90° | 0.7 | 0.0 |
| 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° | 17591.1 | 100.0 |
| 0°-180° | 17591.1 | 100.0 |

Coefficient of Utilization



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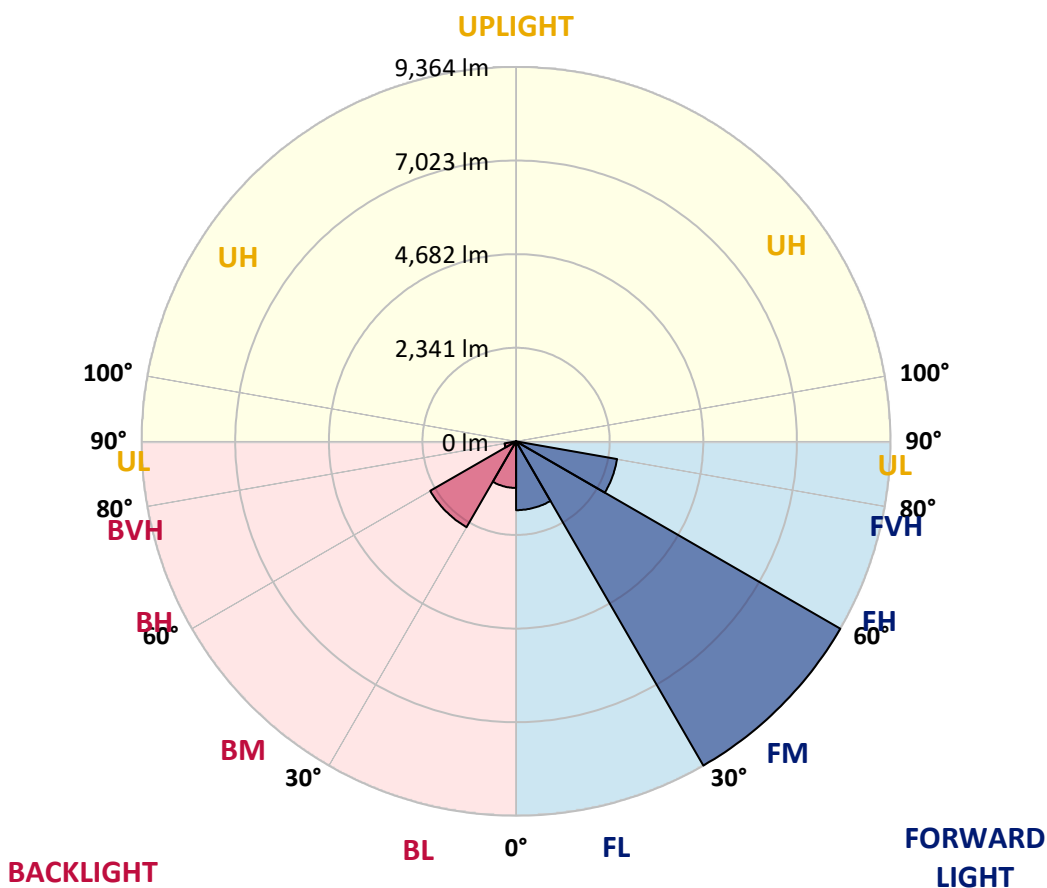
CATALOG NUMBER: GWS-SA6E-722-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1720.9 | 9.8 | | | |
| FM (30°-60°) | 9364.1 | 53.2 | | | |
| FH (60°-80°) | 2566.2 | 14.6 | | | G2/5000 |
| FVH (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1165.5 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 2478.3 | 14.1 | B2/2500 | | |
| BH (60°-80°) | 295.2 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 |
| 2.5° | 3349.5 | 3370.8 | 3406.2 | 3481.8 | 3545.7 | 3588.2 | 3607.1 | 3602.4 | 3576.4 | 3557.5 | 3519.7 |
| 5° | 3708.8 | 3708.8 | 3777.3 | 3949.9 | 4082.2 | 4165.0 | 4207.5 | 4181.5 | 4129.5 | 4046.8 | 3919.1 |
| 7.5° | 4023.2 | 4035.0 | 4150.8 | 4396.6 | 4597.6 | 4715.7 | 4784.3 | 4770.1 | 4677.9 | 4519.5 | 4264.3 |
| 10° | 4269.0 | 4283.2 | 4436.8 | 4737.0 | 4973.4 | 5093.9 | 5195.6 | 5205.0 | 5103.4 | 4893.0 | 4599.9 |
| 12.5° | 4507.7 | 4521.9 | 4682.6 | 4971.0 | 5179.0 | 5228.7 | 5318.5 | 5354.0 | 5328.0 | 5179.0 | 4874.1 |
| 15° | 4765.4 | 4798.5 | 4935.6 | 5150.7 | 5238.1 | 5179.0 | 5238.1 | 5302.0 | 5389.4 | 5375.2 | 5101.0 |
| 17.5° | 5018.3 | 5041.9 | 5181.4 | 5257.0 | 5160.1 | 5006.5 | 5034.9 | 5110.5 | 5309.1 | 5502.9 | 5325.6 |
| 20° | 5252.3 | 5285.4 | 5401.2 | 5302.0 | 5008.9 | 4770.1 | 4772.5 | 4871.8 | 5174.3 | 5580.9 | 5554.9 |
| 22.5° | 5498.2 | 5547.8 | 5630.5 | 5351.6 | 4869.4 | 4583.4 | 4595.2 | 4685.0 | 5067.9 | 5654.2 | 5814.9 |
| 25° | 5819.6 | 5866.9 | 5921.3 | 5474.5 | 4824.5 | 4491.2 | 4536.1 | 4618.8 | 5067.9 | 5779.4 | 6136.4 |
| 27.5° | 6254.6 | 6287.7 | 6290.0 | 5703.8 | 4902.5 | 4505.4 | 4599.9 | 4694.5 | 5219.2 | 6030.0 | 6566.6 |
| 30° | 6800.6 | 6852.6 | 6784.0 | 6060.7 | 5145.9 | 4694.5 | 4833.9 | 4952.1 | 5545.4 | 6453.1 | 7200.1 |
| 32.5° | 7464.8 | 7538.1 | 7445.9 | 6590.2 | 5654.2 | 5346.9 | 5599.8 | 5668.3 | 6065.5 | 7065.3 | 7918.7 |
| 35° | 8244.9 | 8306.3 | 8207.0 | 7323.0 | 6840.8 | 6897.5 | 7356.1 | 7268.6 | 7110.3 | 7819.4 | 8757.8 |
| 37.5° | 9100.6 | 9157.3 | 8965.8 | 8434.0 | 8594.7 | 8840.5 | 9573.3 | 9273.1 | 8762.5 | 8790.9 | 9667.9 |
| 40° | 9885.3 | 9946.8 | 9646.6 | 9641.9 | 9972.8 | 10421.9 | 11306.0 | 10892.3 | 10197.3 | 10062.6 | 10521.2 |
| 42.5° | 10698.5 | 10741.0 | 10469.2 | 10284.8 | 11036.5 | 11960.7 | 12896.8 | 12338.9 | 11147.6 | 11001.0 | 11589.6 |
| 45° | 11859.1 | 11948.9 | 11464.3 | 10601.6 | 11993.8 | 13731.2 | 15036.0 | 13946.3 | 11795.3 | 11677.1 | 13225.4 |
| 47.5° | 13565.7 | 13631.9 | 12643.9 | 10800.1 | 12885.0 | 15936.6 | 17709.4 | 16031.2 | 12364.9 | 12095.5 | 15461.5 |
| 50° | 14976.9 | 15021.8 | 13728.8 | 11017.6 | 13832.8 | 18314.6 | 20756.4 | 18503.7 | 13005.5 | 12788.1 | 17548.7 |
| 52.5° | 16017.0 | 16187.2 | 15154.2 | 11464.3 | 15078.6 | 21110.9 | 24129.5 | 21432.4 | 14005.4 | 14126.0 | 19279.0 |
| 55° | 16232.1 | 16463.7 | 16128.1 | 11738.5 | 16175.3 | 23959.3 | 27244.9 | 24053.8 | 15002.9 | 15140.0 | 19860.5 |
| 57.5° | 14265.4 | 14449.8 | 14728.7 | 10632.3 | 16149.3 | 25264.1 | 29053.2 | 24923.7 | 14549.1 | 13577.6 | 17683.4 |
| 60° | 10686.7 | 10814.3 | 11320.1 | 8126.7 | 14851.6 | 24110.6 | 27644.4 | 23444.0 | 12721.9 | 10360.4 | 13473.5 |
| 62.5° | 6337.3 | 6394.0 | 7034.6 | 5264.1 | 12327.1 | 20763.4 | 22926.3 | 20229.2 | 10053.2 | 6968.4 | 8252.0 |
| 65° | 2432.3 | 2408.7 | 2898.0 | 2597.8 | 9065.1 | 16539.4 | 17052.3 | 15421.3 | 6897.5 | 3193.5 | 3146.2 |
| 67.5° | 375.8 | 359.3 | 484.6 | 768.2 | 6538.2 | 11462.0 | 11251.6 | 11114.5 | 4321.0 | 744.6 | 650.0 |
| 70° | 85.1 | 85.1 | 104.0 | 226.9 | 3994.8 | 6734.4 | 7207.2 | 6871.5 | 2765.6 | 158.4 | 85.1 |
| 72.5° | 40.2 | 40.2 | 49.6 | 96.9 | 1446.6 | 2775.1 | 3233.7 | 3184.0 | 898.2 | 52.0 | 30.7 |
| 75° | 14.2 | 16.5 | 16.5 | 21.3 | 87.5 | 144.2 | 330.9 | 236.4 | 56.7 | 0.0 | 0.0 |
| 77.5° | 4.7 | 4.7 | 4.7 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: GWS-SA6E-722-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 |
| 2.5° | 3436.9 | 3420.4 | 3358.9 | 3276.2 | 3195.8 | 3124.9 | 3051.6 | 2964.2 | 2900.4 | 2827.1 | 2803.4 |
| 5° | 3819.9 | 3715.9 | 3548.0 | 3373.1 | 3212.4 | 3075.3 | 2942.9 | 2801.1 | 2697.1 | 2593.1 | 2557.6 |
| 7.5° | 4143.7 | 3990.1 | 3718.2 | 3455.8 | 3236.0 | 3042.2 | 2850.7 | 2656.9 | 2505.6 | 2382.7 | 2344.9 |
| 10° | 4434.5 | 4257.2 | 3893.1 | 3569.3 | 3292.7 | 3068.2 | 2836.5 | 2593.1 | 2396.9 | 2250.3 | 2214.9 |
| 12.5° | 4685.0 | 4479.4 | 4042.1 | 3654.4 | 3316.4 | 3058.7 | 2834.2 | 2640.3 | 2463.1 | 2295.2 | 2250.3 |
| 15° | 4895.4 | 4668.5 | 4167.3 | 3711.1 | 3280.9 | 2940.5 | 2744.3 | 2713.6 | 2699.4 | 2515.1 | 2427.6 |
| 17.5° | 5101.0 | 4845.7 | 4269.0 | 3737.1 | 3181.6 | 2732.5 | 2590.7 | 2730.2 | 2879.1 | 2758.5 | 2647.4 |
| 20° | 5316.1 | 5025.4 | 4373.0 | 3741.9 | 3016.2 | 2498.5 | 2474.9 | 2694.7 | 2883.8 | 2846.0 | 2742.0 |
| 22.5° | 5569.1 | 5250.0 | 4503.0 | 3739.5 | 2808.2 | 2300.0 | 2389.8 | 2626.2 | 2779.8 | 2777.4 | 2694.7 |
| 25° | 5935.5 | 5533.6 | 4677.9 | 3753.7 | 2581.2 | 2146.3 | 2295.2 | 2510.3 | 2635.6 | 2630.9 | 2562.3 |
| 27.5° | 6327.8 | 5871.6 | 4904.8 | 3789.1 | 2387.4 | 2056.5 | 2184.1 | 2352.0 | 2460.7 | 2456.0 | 2396.9 |
| 30° | 6878.6 | 6261.7 | 5122.3 | 3791.5 | 2248.0 | 2009.2 | 2061.2 | 2177.0 | 2281.0 | 2269.2 | 2224.3 |
| 32.5° | 7547.6 | 6701.3 | 5304.3 | 3656.8 | 2160.5 | 1964.3 | 1933.6 | 1992.7 | 2073.0 | 2056.5 | 2044.7 |
| 35° | 8356.0 | 7223.7 | 5460.3 | 3361.3 | 2025.8 | 1874.5 | 1791.7 | 1803.6 | 1860.3 | 1869.8 | 1865.0 |
| 37.5° | 9277.8 | 7845.4 | 5654.2 | 2971.3 | 1843.7 | 1744.5 | 1633.4 | 1623.9 | 1657.0 | 1687.7 | 1711.4 |
| 40° | 10187.9 | 8545.1 | 5916.5 | 2576.5 | 1678.3 | 1579.0 | 1472.6 | 1449.0 | 1463.2 | 1517.5 | 1567.2 |
| 42.5° | 11211.4 | 9355.8 | 6200.2 | 2238.5 | 1564.8 | 1397.0 | 1295.4 | 1250.4 | 1290.6 | 1378.1 | 1437.2 |
| 45° | 12686.4 | 10492.8 | 6476.8 | 1969.0 | 1517.5 | 1236.3 | 1099.2 | 1094.4 | 1139.3 | 1252.8 | 1319.0 |
| 47.5° | 14757.1 | 11963.1 | 6658.8 | 1758.7 | 1515.2 | 1111.0 | 947.9 | 976.2 | 1028.2 | 1139.3 | 1215.0 |
| 50° | 16775.7 | 13804.5 | 6457.8 | 1597.9 | 1465.5 | 1028.2 | 834.4 | 891.1 | 943.1 | 1040.1 | 1118.1 |
| 52.5° | 17993.1 | 14794.9 | 5675.4 | 1446.6 | 1311.9 | 990.4 | 723.3 | 822.6 | 832.1 | 919.5 | 1002.2 |
| 55° | 17865.5 | 14154.3 | 4347.0 | 1212.6 | 1085.0 | 936.1 | 607.5 | 742.2 | 747.0 | 813.1 | 884.1 |
| 57.5° | 15506.4 | 12152.2 | 2985.5 | 983.3 | 815.5 | 773.0 | 501.1 | 626.4 | 671.3 | 711.5 | 763.5 |
| 60° | 11556.5 | 8866.5 | 1330.8 | 799.0 | 517.7 | 522.4 | 427.8 | 472.8 | 541.3 | 588.6 | 633.5 |
| 62.5° | 6810.1 | 5101.0 | 541.3 | 479.8 | 286.0 | 328.6 | 345.1 | 345.1 | 387.7 | 423.1 | 451.5 |
| 65° | 2574.2 | 1784.7 | 219.8 | 241.1 | 148.9 | 153.6 | 203.3 | 250.6 | 283.7 | 314.4 | 352.2 |
| 67.5° | 451.5 | 312.0 | 113.5 | 89.8 | 87.5 | 78.0 | 104.0 | 163.1 | 182.0 | 205.6 | 222.2 |
| 70° | 75.6 | 63.8 | 47.3 | 44.9 | 40.2 | 42.5 | 68.5 | 115.8 | 127.6 | 134.7 | 141.8 |
| 72.5° | 21.3 | 18.9 | 14.2 | 11.8 | 9.5 | 11.8 | 42.5 | 89.8 | 94.6 | 99.3 | 106.4 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 16.5 | 63.8 | 68.5 | 70.9 | 78.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 | 18.9 | 23.6 | 18.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 | 3091.8 |
| 2.5° | 2789.3 | 2742.0 | 2716.0 | 2701.8 | 2701.8 | 2682.9 | 2661.6 | 2654.5 | 2685.3 | 2685.3 | 2737.3 |
| 5° | 2512.7 | 2474.9 | 2432.3 | 2406.3 | 2366.1 | 2373.2 | 2349.6 | 2347.2 | 2378.0 | 2392.1 | 2446.5 |
| 7.5° | 2321.2 | 2274.0 | 2248.0 | 2231.4 | 2210.1 | 2200.7 | 2179.4 | 2172.3 | 2188.9 | 2212.5 | 2264.5 |
| 10° | 2193.6 | 2186.5 | 2184.1 | 2196.0 | 2196.0 | 2184.1 | 2165.2 | 2153.4 | 2158.1 | 2203.0 | 2262.1 |
| 12.5° | 2226.7 | 2240.9 | 2245.6 | 2264.5 | 2274.0 | 2264.5 | 2250.3 | 2255.0 | 2285.8 | 2368.5 | 2456.0 |
| 15° | 2370.9 | 2359.1 | 2354.3 | 2363.8 | 2370.9 | 2361.4 | 2356.7 | 2392.1 | 2498.5 | 2616.7 | 2716.0 |
| 17.5° | 2524.5 | 2448.9 | 2415.8 | 2415.8 | 2420.5 | 2415.8 | 2420.5 | 2489.1 | 2661.6 | 2779.8 | 2853.1 |
| 20° | 2602.5 | 2463.1 | 2411.1 | 2399.2 | 2408.7 | 2411.1 | 2427.6 | 2505.6 | 2694.7 | 2777.4 | 2794.0 |
| 22.5° | 2578.9 | 2404.0 | 2344.9 | 2335.4 | 2344.9 | 2354.3 | 2370.9 | 2437.1 | 2614.3 | 2656.9 | 2649.8 |
| 25° | 2460.7 | 2288.1 | 2240.9 | 2240.9 | 2262.1 | 2259.8 | 2266.9 | 2314.1 | 2460.7 | 2486.7 | 2474.9 |
| 27.5° | 2311.8 | 2148.7 | 2108.5 | 2132.1 | 2151.0 | 2146.3 | 2148.7 | 2188.9 | 2297.6 | 2304.7 | 2292.9 |
| 30° | 2160.5 | 2018.7 | 1980.8 | 2009.2 | 2035.2 | 2030.5 | 2032.9 | 2073.0 | 2141.6 | 2134.5 | 2117.9 |
| 32.5° | 2006.8 | 1902.8 | 1874.5 | 1891.0 | 1931.2 | 1926.5 | 1935.9 | 1978.5 | 2004.5 | 1973.8 | 1954.8 |
| 35° | 1865.0 | 1810.7 | 1789.4 | 1798.8 | 1829.6 | 1836.7 | 1853.2 | 1881.6 | 1881.6 | 1843.7 | 1810.7 |
| 37.5° | 1732.7 | 1725.6 | 1711.4 | 1699.6 | 1727.9 | 1749.2 | 1772.8 | 1805.9 | 1758.7 | 1704.3 | 1673.6 |
| 40° | 1609.7 | 1640.5 | 1621.6 | 1590.8 | 1607.4 | 1638.1 | 1685.4 | 1711.4 | 1654.6 | 1600.3 | 1548.3 |
| 42.5° | 1496.3 | 1548.3 | 1541.2 | 1503.4 | 1517.5 | 1545.9 | 1600.3 | 1621.6 | 1555.4 | 1493.9 | 1444.3 |
| 45° | 1387.5 | 1460.8 | 1465.5 | 1418.3 | 1432.5 | 1460.8 | 1524.6 | 1531.7 | 1446.6 | 1380.4 | 1345.0 |
| 47.5° | 1293.0 | 1373.4 | 1375.7 | 1340.3 | 1345.0 | 1385.2 | 1444.3 | 1446.6 | 1349.7 | 1288.3 | 1243.3 |
| 50° | 1203.2 | 1295.4 | 1302.4 | 1271.7 | 1276.4 | 1323.7 | 1373.4 | 1363.9 | 1259.9 | 1196.1 | 1155.9 |
| 52.5° | 1094.4 | 1219.7 | 1236.3 | 1222.1 | 1241.0 | 1278.8 | 1309.5 | 1276.4 | 1155.9 | 1092.1 | 1056.6 |
| 55° | 976.2 | 1139.3 | 1174.8 | 1165.3 | 1186.6 | 1217.3 | 1224.4 | 1203.2 | 1051.9 | 988.1 | 955.0 |
| 57.5° | 839.1 | 938.4 | 999.9 | 981.0 | 997.5 | 1028.2 | 1049.5 | 1033.0 | 919.5 | 869.9 | 841.5 |
| 60° | 695.0 | 761.1 | 775.3 | 744.6 | 730.4 | 784.8 | 834.4 | 813.1 | 716.2 | 685.5 | 652.4 |
| 62.5° | 508.2 | 583.9 | 593.3 | 553.1 | 536.6 | 595.7 | 638.2 | 616.9 | 510.6 | 477.5 | 451.5 |
| 65° | 406.6 | 477.5 | 496.4 | 458.6 | 449.1 | 494.0 | 520.0 | 468.0 | 392.4 | 356.9 | 328.6 |
| 67.5° | 267.1 | 323.8 | 373.5 | 371.1 | 352.2 | 366.4 | 347.5 | 304.9 | 250.6 | 231.7 | 212.7 |
| 70° | 165.5 | 198.6 | 229.3 | 241.1 | 238.7 | 234.0 | 208.0 | 177.3 | 160.7 | 153.6 | 144.2 |
| 72.5° | 127.6 | 160.7 | 184.4 | 191.5 | 193.8 | 186.7 | 165.5 | 137.1 | 120.6 | 111.1 | 104.0 |
| 75° | 94.6 | 120.6 | 139.5 | 148.9 | 153.6 | 148.9 | 127.6 | 108.7 | 92.2 | 85.1 | 78.0 |
| 77.5° | 33.1 | 40.2 | 49.6 | 54.4 | 52.0 | 49.6 | 44.9 | 44.9 | 35.5 | 33.1 | 28.4 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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| 2.5° | 2796.4 | 2838.9 | 2916.9 | 2987.8 | 3063.5 | 3141.5 | 3226.6 | 3314.0 | 3354.2 | 3349.5 |
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| 20° | 2630.9 | 2408.7 | 2205.4 | 2207.8 | 2678.2 | 3512.6 | 4297.4 | 4987.6 | 5207.4 | 5252.3 |
| 22.5° | 2503.2 | 2316.5 | 2106.1 | 2032.9 | 2498.5 | 3503.1 | 4432.1 | 5216.9 | 5455.6 | 5498.2 |
| 25° | 2361.4 | 2198.3 | 2011.6 | 1900.5 | 2318.9 | 3512.6 | 4621.2 | 5517.1 | 5779.4 | 5819.6 |
| 27.5° | 2207.8 | 2068.3 | 1938.3 | 1848.5 | 2167.6 | 3548.0 | 4848.1 | 5900.0 | 6212.0 | 6254.6 |
| 30° | 2047.0 | 1943.0 | 1891.0 | 1836.7 | 2073.0 | 3557.5 | 5093.9 | 6346.8 | 6741.5 | 6800.6 |
| 32.5° | 1888.7 | 1831.9 | 1834.3 | 1843.7 | 1983.2 | 3491.3 | 5318.5 | 6843.1 | 7370.3 | 7464.8 |
| 35° | 1742.1 | 1725.6 | 1772.8 | 1820.1 | 1853.2 | 3321.1 | 5514.7 | 7429.4 | 8148.0 | 8244.9 |
| 37.5° | 1616.8 | 1631.0 | 1690.1 | 1737.4 | 1711.4 | 3080.0 | 5774.7 | 8162.1 | 9017.8 | 9100.6 |
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| 42.5° | 1385.2 | 1411.2 | 1508.1 | 1512.8 | 1571.9 | 2512.7 | 6386.9 | 9630.0 | 10639.4 | 10698.5 |
| 45° | 1295.4 | 1290.6 | 1389.9 | 1420.6 | 1612.1 | 2196.0 | 6680.0 | 10644.1 | 11774.0 | 11859.1 |
| 47.5° | 1207.9 | 1203.2 | 1226.8 | 1366.3 | 1628.6 | 1902.8 | 6970.8 | 12128.6 | 13419.2 | 13565.7 |
| 50° | 1125.2 | 1132.3 | 1059.0 | 1340.3 | 1538.8 | 1678.3 | 7103.2 | 13501.9 | 14915.5 | 14976.9 |
| 52.5° | 1051.9 | 1025.9 | 898.2 | 1255.2 | 1347.4 | 1465.5 | 6727.3 | 14126.0 | 15842.1 | 16017.0 |
| 55° | 947.9 | 803.7 | 739.9 | 1018.8 | 1063.7 | 1278.8 | 5510.0 | 13764.3 | 15922.4 | 16232.1 |
| 57.5° | 810.8 | 631.1 | 628.8 | 751.7 | 751.7 | 1186.6 | 3529.1 | 11759.8 | 13721.7 | 14265.4 |
| 60° | 624.0 | 489.3 | 520.0 | 522.4 | 482.2 | 865.1 | 1980.8 | 8519.1 | 10145.3 | 10686.7 |
| 62.5° | 444.4 | 373.5 | 392.4 | 312.0 | 276.6 | 432.6 | 950.2 | 4904.8 | 6261.7 | 6337.3 |
| 65° | 297.8 | 252.9 | 205.6 | 172.6 | 170.2 | 184.4 | 392.4 | 1772.8 | 2155.8 | 2432.3 |
| 67.5° | 196.2 | 153.6 | 108.7 | 108.7 | 122.9 | 122.9 | 148.9 | 293.1 | 411.3 | 375.8 |
| 70° | 127.6 | 106.4 | 68.5 | 66.2 | 80.4 | 80.4 | 75.6 | 80.4 | 85.1 | 85.1 |
| 72.5° | 94.6 | 80.4 | 40.2 | 35.5 | 44.9 | 47.3 | 42.5 | 40.2 | 40.2 | 40.2 |
| 75° | 70.9 | 56.7 | 23.6 | 16.5 | 21.3 | 28.4 | 23.6 | 16.5 | 16.5 | 14.2 |
| 77.5° | 28.4 | 21.3 | 9.5 | 7.1 | 11.8 | 16.5 | 14.2 | 7.1 | 4.7 | 4.7 |
| 80° | 2.4 | 4.7 | 4.7 | 4.7 | 7.1 | 9.5 | 11.8 | 4.7 | 2.4 | 2.4 |
| 82.5° | 0.0 | 2.4 | 2.4 | 2.4 | 4.7 | 7.1 | 9.5 | 4.7 | 2.4 | 2.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 4.7 | 7.1 | 4.7 | 2.4 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 7.1 | 4.7 | 2.4 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)