

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: P633424

Luminaire Tested: GWS-SA2E-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-760-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11517.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

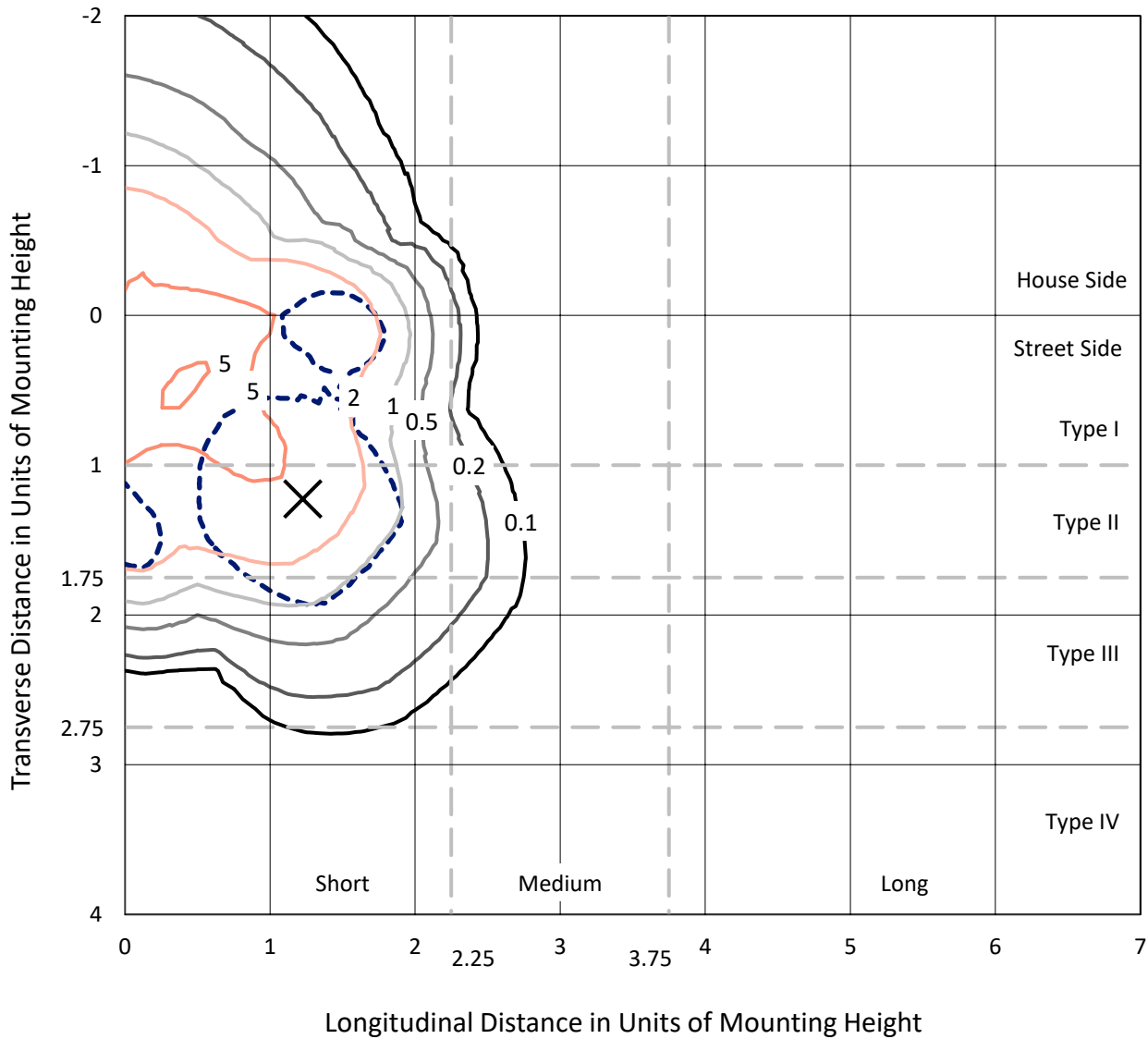
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

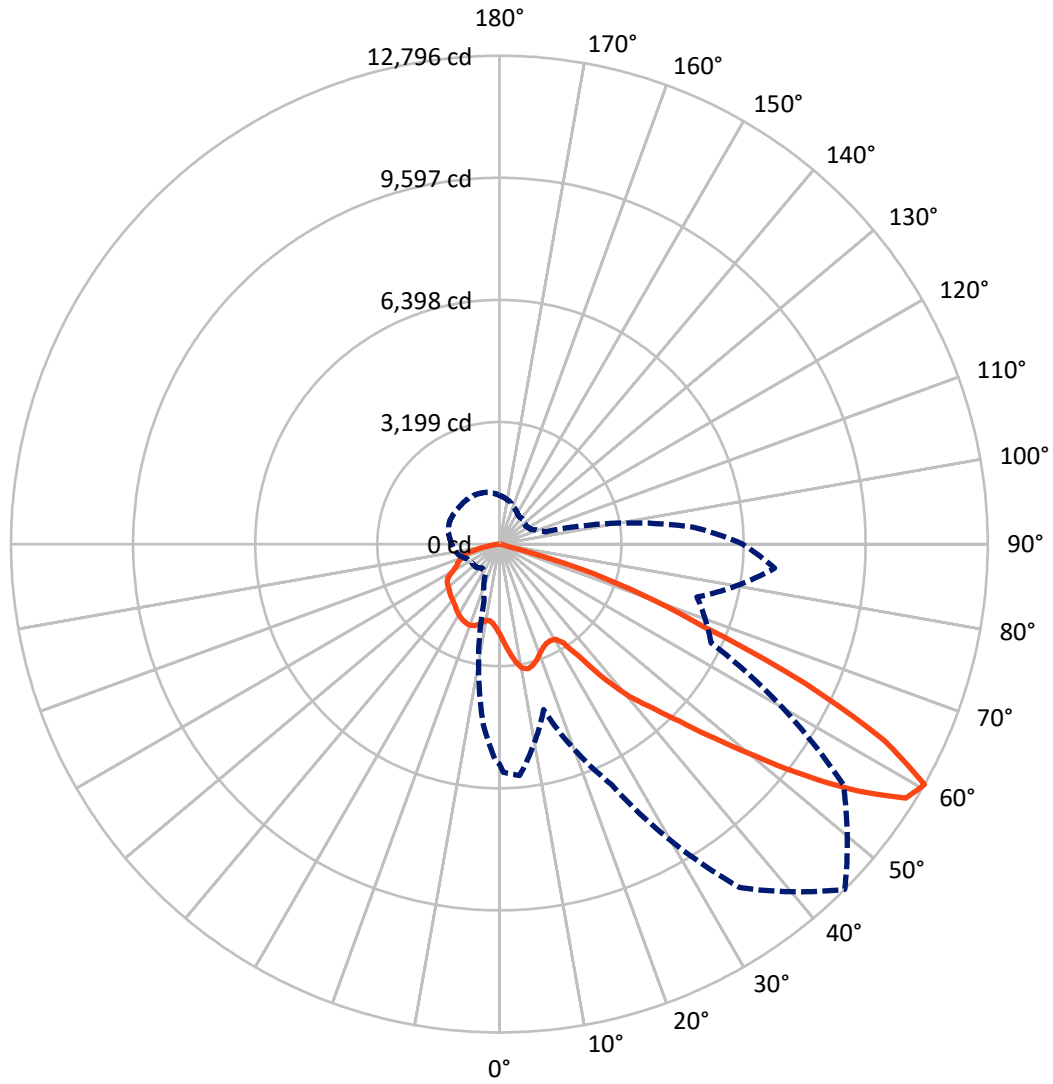
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4037.3 | 0.0 | 4037.3 |
| | % Fixture | 35.1 | 0.0 | 35.1 |
| Street Side | Lumens | 7480.2 | 0.0 | 7480.2 |
| | % Fixture | 64.9 | 0.0 | 64.9 |
| Total | Lumens | 11517.5 | 0.0 | 11517.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 230.8 | 2.0 |
| 10°-20° | 729.5 | 6.3 |
| 20°-30° | 1185.0 | 10.3 |
| 30°-40° | 1671.1 | 14.5 |
| 40°-50° | 2309.4 | 20.1 |
| 50°-60° | 2972.9 | 25.8 |
| 60°-70° | 1883.7 | 16.4 |
| 70°-80° | 483.4 | 4.2 |
| 80°-90° | 51.7 | 0.4 |
| 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° | 11517.5 | 100.0 |
| 0°-180° | 11517.5 | 100.0 |

Coefficient of Utilization



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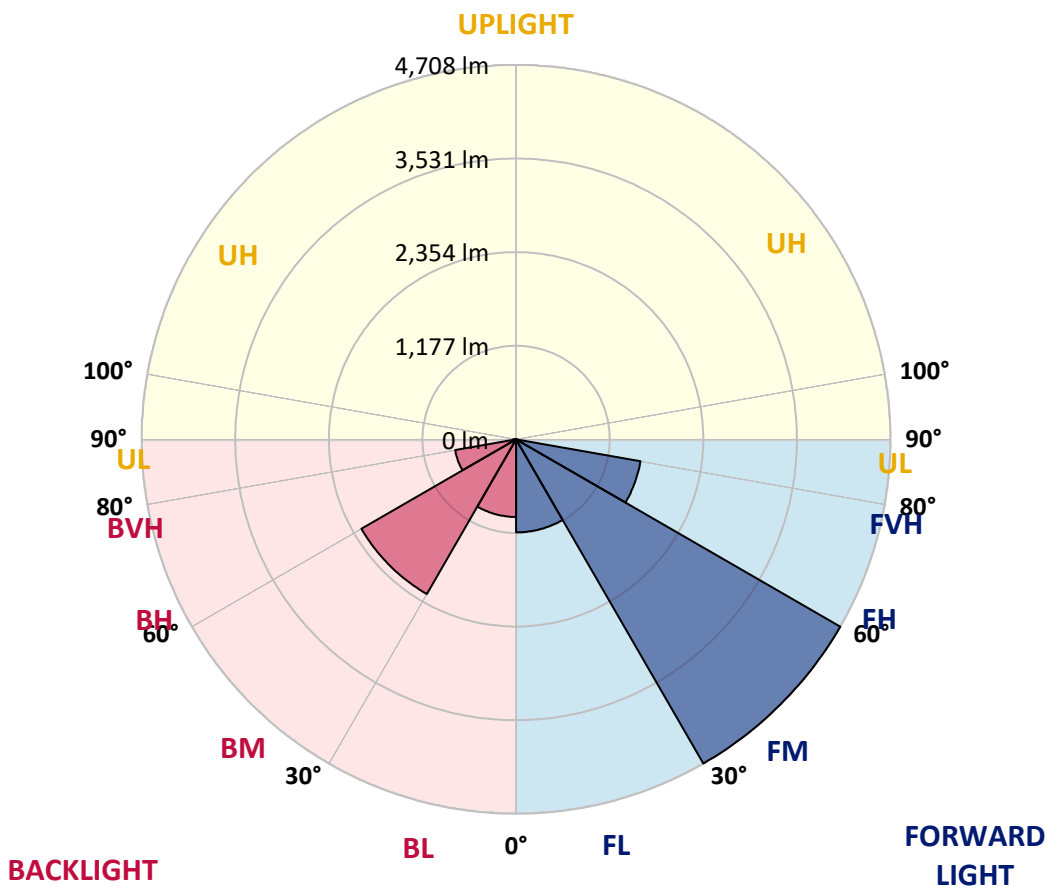
CATALOG NUMBER: GWS-SA2E-760-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1169.5 | 10.2 | | | |
| FM (30°-60°) | 4707.7 | 40.9 | | | |
| FH (60°-80°) | 1589.0 | 13.8 | | | G1/1800 |
| FVH (80°-90°) | 14.0 | 0.1 | | | G1/100 |
| BL (0°-30°) | 975.8 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 2245.8 | 19.5 | B2/2500 | | |
| BH (60°-80°) | 778.0 | 6.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 37.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 |
| 2.5° | 2474.7 | 2491.6 | 2502.2 | 2522.2 | 2558.1 | 2578.2 | 2600.3 | 2576.0 | 2582.4 | 2579.2 | 2540.2 |
| 5° | 2621.4 | 2641.5 | 2668.9 | 2728.0 | 2794.5 | 2831.4 | 2866.3 | 2861.0 | 2828.3 | 2773.4 | 2734.3 |
| 7.5° | 2758.6 | 2781.8 | 2829.3 | 2925.4 | 3023.5 | 3080.5 | 3122.7 | 3095.3 | 3067.8 | 2981.3 | 2883.1 |
| 10° | 2866.3 | 2880.0 | 2944.3 | 3073.1 | 3187.1 | 3251.4 | 3303.2 | 3296.8 | 3258.8 | 3161.7 | 3029.8 |
| 12.5° | 2967.6 | 2977.1 | 3046.7 | 3175.5 | 3277.8 | 3306.3 | 3348.5 | 3362.3 | 3349.6 | 3276.8 | 3147.0 |
| 15° | 3076.3 | 3094.2 | 3158.6 | 3256.7 | 3303.2 | 3273.6 | 3288.4 | 3326.4 | 3362.3 | 3362.3 | 3243.0 |
| 17.5° | 3177.6 | 3193.4 | 3258.8 | 3301.0 | 3256.7 | 3178.6 | 3182.9 | 3231.4 | 3316.9 | 3406.6 | 3330.6 |
| 20° | 3267.3 | 3282.1 | 3346.4 | 3306.3 | 3166.0 | 3052.0 | 3048.8 | 3107.9 | 3246.2 | 3435.1 | 3424.5 |
| 22.5° | 3365.4 | 3386.5 | 3440.3 | 3310.5 | 3081.5 | 2937.0 | 2935.9 | 2997.1 | 3183.9 | 3463.6 | 3532.2 |
| 25° | 3504.7 | 3537.4 | 3564.9 | 3347.5 | 3036.2 | 2862.0 | 2875.8 | 2933.8 | 3163.9 | 3510.0 | 3691.5 |
| 27.5° | 3711.6 | 3738.0 | 3735.8 | 3424.5 | 3034.1 | 2831.4 | 2859.9 | 2927.5 | 3199.7 | 3592.3 | 3859.3 |
| 30° | 3935.3 | 3949.0 | 3926.9 | 3532.2 | 3082.6 | 2850.4 | 2892.6 | 2972.8 | 3290.5 | 3728.5 | 4106.3 |
| 32.5° | 4183.3 | 4200.2 | 4158.0 | 3693.6 | 3195.5 | 2990.8 | 3083.7 | 3122.7 | 3418.2 | 3924.7 | 4368.0 |
| 35° | 4468.2 | 4500.9 | 4413.4 | 3906.8 | 3527.9 | 3502.6 | 3637.7 | 3587.0 | 3689.4 | 4156.9 | 4647.6 |
| 37.5° | 4767.9 | 4769.0 | 4643.4 | 4222.3 | 4180.1 | 4223.4 | 4493.6 | 4335.3 | 4264.6 | 4415.5 | 4932.6 |
| 40° | 5022.3 | 5015.9 | 4822.8 | 4647.6 | 4747.9 | 4919.9 | 5246.0 | 5003.3 | 4817.5 | 4762.7 | 5169.0 |
| 42.5° | 5276.6 | 5253.4 | 5058.2 | 4917.8 | 5139.4 | 5493.0 | 5861.3 | 5563.7 | 5172.1 | 5078.2 | 5402.2 |
| 45° | 5601.6 | 5594.3 | 5358.9 | 5025.4 | 5493.0 | 6134.6 | 6623.2 | 6140.9 | 5382.1 | 5261.8 | 5790.6 |
| 47.5° | 6126.1 | 6090.3 | 5652.3 | 5017.0 | 5824.3 | 6989.4 | 7606.8 | 6868.0 | 5528.8 | 5266.1 | 6417.4 |
| 50° | 6639.0 | 6594.7 | 6002.7 | 5015.9 | 6166.2 | 7875.9 | 8767.6 | 7751.3 | 5678.7 | 5291.4 | 7054.8 |
| 52.5° | 7157.2 | 7157.2 | 6577.8 | 5135.2 | 6525.1 | 8865.8 | 10108.9 | 8852.0 | 5934.1 | 5622.8 | 7838.9 |
| 55° | 7465.3 | 7547.7 | 7224.7 | 5336.8 | 6945.1 | 10030.8 | 11435.5 | 10040.3 | 6328.8 | 6221.1 | 8562.9 |
| 57.5° | 7073.8 | 7227.9 | 7181.5 | 5196.4 | 7193.1 | 10886.7 | 12560.4 | 10941.6 | 6524.0 | 6291.8 | 8454.2 |
| 60° | 5764.2 | 5978.4 | 6085.0 | 4487.2 | 6948.2 | 10985.9 | 12795.8 | 11000.7 | 6120.9 | 5357.9 | 7241.6 |
| 62.5° | 3831.9 | 4008.1 | 4170.6 | 3206.1 | 6015.3 | 9883.1 | 11317.3 | 9886.3 | 5112.0 | 3998.6 | 5017.0 |
| 65° | 1879.5 | 2010.4 | 2185.6 | 1895.4 | 4699.3 | 8257.9 | 8823.5 | 7988.8 | 3697.8 | 2238.3 | 2559.2 |
| 67.5° | 491.8 | 528.7 | 553.0 | 735.6 | 3366.5 | 5933.0 | 5754.7 | 5843.3 | 2375.5 | 731.3 | 669.1 |
| 70° | 255.4 | 257.5 | 256.4 | 303.9 | 2275.3 | 3770.7 | 3965.9 | 3669.4 | 1657.9 | 306.0 | 263.8 |
| 72.5° | 182.6 | 183.6 | 180.5 | 204.7 | 1098.6 | 2160.2 | 2238.3 | 2214.1 | 868.5 | 181.5 | 180.5 |
| 75° | 119.3 | 120.3 | 118.2 | 120.3 | 165.7 | 245.9 | 226.9 | 238.5 | 144.6 | 115.0 | 115.0 |
| 77.5° | 70.7 | 71.8 | 70.7 | 72.8 | 70.7 | 70.7 | 65.4 | 65.4 | 62.3 | 62.3 | 63.3 |
| 80° | 47.5 | 47.5 | 46.4 | 48.5 | 44.3 | 44.3 | 42.2 | 41.2 | 38.0 | 36.9 | 36.9 |
| 82.5° | 28.5 | 29.5 | 28.5 | 28.5 | 26.4 | 26.4 | 24.3 | 23.2 | 20.1 | 20.1 | 19.0 |
| 85° | 14.8 | 14.8 | 13.7 | 13.7 | 11.6 | 10.6 | 8.4 | 8.4 | 6.3 | 5.3 | 5.3 |
| 87.5° | 2.1 | 2.1 | 1.1 | 1.1 | 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 |
| 2.5° | 2529.6 | 2508.5 | 2476.8 | 2446.2 | 2417.7 | 2388.2 | 2354.4 | 2319.6 | 2290.0 | 2259.4 | 2243.6 |
| 5° | 2682.6 | 2639.4 | 2557.0 | 2484.2 | 2418.8 | 2365.0 | 2306.9 | 2257.3 | 2210.9 | 2172.9 | 2153.9 |
| 7.5° | 2820.9 | 2753.3 | 2628.8 | 2513.8 | 2425.1 | 2351.3 | 2271.1 | 2197.2 | 2134.9 | 2088.5 | 2070.5 |
| 10° | 2948.6 | 2868.4 | 2704.8 | 2559.2 | 2455.7 | 2373.4 | 2275.3 | 2175.0 | 2092.7 | 2031.5 | 2016.7 |
| 12.5° | 3052.0 | 2960.2 | 2764.9 | 2596.1 | 2473.7 | 2385.0 | 2298.5 | 2212.0 | 2130.7 | 2051.5 | 2038.9 |
| 15° | 3143.8 | 3035.1 | 2810.3 | 2619.3 | 2467.3 | 2354.4 | 2281.6 | 2271.1 | 2271.1 | 2181.4 | 2156.0 |
| 17.5° | 3223.0 | 3103.7 | 2847.3 | 2629.9 | 2427.2 | 2263.7 | 2219.3 | 2311.2 | 2414.6 | 2350.2 | 2293.2 |
| 20° | 3313.7 | 3169.1 | 2877.9 | 2629.9 | 2353.4 | 2148.6 | 2144.4 | 2300.6 | 2453.6 | 2454.7 | 2394.5 |
| 22.5° | 3405.5 | 3245.1 | 2913.7 | 2620.4 | 2252.1 | 2015.7 | 2093.8 | 2258.4 | 2394.5 | 2452.6 | 2411.4 |
| 25° | 3554.3 | 3350.6 | 2970.7 | 2613.0 | 2133.9 | 1924.9 | 2048.4 | 2202.5 | 2317.5 | 2378.7 | 2352.3 |
| 27.5° | 3743.2 | 3490.0 | 3057.3 | 2624.6 | 2016.7 | 1871.1 | 1999.8 | 2129.6 | 2234.1 | 2287.9 | 2268.9 |
| 30° | 3954.3 | 3650.4 | 3150.1 | 2644.6 | 1932.3 | 1843.6 | 1941.8 | 2046.3 | 2139.1 | 2193.0 | 2184.5 |
| 32.5° | 4223.4 | 3824.5 | 3230.3 | 2617.2 | 1884.8 | 1829.9 | 1880.6 | 1955.5 | 2045.2 | 2079.0 | 2086.4 |
| 35° | 4545.3 | 4016.6 | 3291.5 | 2509.6 | 1841.5 | 1815.2 | 1814.1 | 1860.5 | 1923.9 | 1977.7 | 1983.0 |
| 37.5° | 4841.8 | 4241.3 | 3359.1 | 2324.9 | 1763.4 | 1778.2 | 1736.0 | 1763.4 | 1825.7 | 1879.5 | 1900.6 |
| 40° | 5135.2 | 4469.3 | 3453.0 | 2089.5 | 1661.1 | 1695.9 | 1646.3 | 1665.3 | 1714.9 | 1785.6 | 1819.4 |
| 42.5° | 5420.1 | 4675.1 | 3552.2 | 1848.9 | 1558.7 | 1580.9 | 1543.9 | 1562.9 | 1614.6 | 1703.3 | 1741.3 |
| 45° | 5730.4 | 4953.7 | 3629.3 | 1622.0 | 1470.1 | 1460.6 | 1431.0 | 1458.5 | 1536.5 | 1633.6 | 1679.0 |
| 47.5° | 6317.2 | 5392.7 | 3679.9 | 1471.1 | 1422.6 | 1354.0 | 1320.2 | 1379.3 | 1468.0 | 1566.1 | 1621.0 |
| 50° | 7033.7 | 6028.0 | 3665.1 | 1375.1 | 1381.4 | 1244.2 | 1232.6 | 1310.7 | 1405.7 | 1508.1 | 1568.2 |
| 52.5° | 7601.5 | 6651.7 | 3497.3 | 1283.3 | 1301.2 | 1174.6 | 1140.8 | 1254.8 | 1345.5 | 1450.0 | 1512.3 |
| 55° | 8035.2 | 6861.7 | 2982.3 | 1174.6 | 1170.4 | 1123.9 | 1053.2 | 1196.7 | 1285.4 | 1382.5 | 1450.0 |
| 57.5° | 7681.7 | 6394.2 | 2210.9 | 1024.7 | 999.4 | 1023.7 | 955.1 | 1098.6 | 1211.5 | 1307.5 | 1367.7 |
| 60° | 6375.2 | 5098.3 | 1231.6 | 907.6 | 835.8 | 894.9 | 884.4 | 995.2 | 1131.3 | 1232.6 | 1284.3 |
| 62.5° | 4327.9 | 3395.0 | 730.3 | 717.6 | 677.5 | 761.9 | 817.9 | 890.7 | 1024.7 | 1107.0 | 1155.6 |
| 65° | 2157.1 | 1649.5 | 485.4 | 537.2 | 542.4 | 626.9 | 732.4 | 812.6 | 924.5 | 1008.9 | 1057.4 |
| 67.5° | 625.8 | 512.9 | 369.4 | 410.5 | 467.5 | 535.0 | 619.5 | 714.5 | 823.2 | 923.4 | 980.4 |
| 70° | 270.2 | 273.3 | 293.4 | 341.9 | 397.9 | 467.5 | 551.9 | 644.8 | 736.6 | 813.7 | 856.9 |
| 72.5° | 191.0 | 198.4 | 220.6 | 270.2 | 322.9 | 389.4 | 473.8 | 563.5 | 630.0 | 708.1 | 753.5 |
| 75° | 122.4 | 127.7 | 145.6 | 183.6 | 222.7 | 287.0 | 367.3 | 449.6 | 518.2 | 574.1 | 617.4 |
| 77.5° | 67.5 | 68.6 | 83.4 | 105.5 | 131.9 | 173.1 | 232.2 | 296.5 | 347.2 | 378.9 | 417.9 |
| 80° | 39.0 | 39.0 | 46.4 | 60.2 | 76.0 | 101.3 | 134.0 | 165.7 | 196.3 | 216.3 | 235.3 |
| 82.5° | 21.1 | 21.1 | 24.3 | 32.7 | 41.2 | 55.9 | 74.9 | 90.8 | 109.8 | 120.3 | 133.0 |
| 85° | 6.3 | 6.3 | 8.4 | 11.6 | 14.8 | 21.1 | 29.5 | 38.0 | 46.4 | 53.8 | 61.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 |
| 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-SA2E-760-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 |
| 2.5° | 2240.4 | 2225.7 | 2217.2 | 2206.7 | 2209.8 | 2200.3 | 2195.1 | 2198.2 | 2179.2 | 2198.2 | 2217.2 |
| 5° | 2146.5 | 2125.4 | 2108.5 | 2094.8 | 2088.5 | 2075.8 | 2068.4 | 2068.4 | 2056.8 | 2075.8 | 2099.0 |
| 7.5° | 2064.2 | 2047.3 | 2038.9 | 2030.4 | 2020.9 | 2009.3 | 1996.7 | 1992.4 | 1985.1 | 2005.1 | 2025.2 |
| 10° | 2009.3 | 2011.4 | 2016.7 | 2028.3 | 2026.2 | 2018.8 | 1999.8 | 1989.3 | 1989.3 | 2012.5 | 2043.1 |
| 12.5° | 2034.7 | 2056.8 | 2069.5 | 2090.6 | 2094.8 | 2088.5 | 2069.5 | 2061.0 | 2082.2 | 2117.0 | 2167.6 |
| 15° | 2132.8 | 2147.6 | 2158.1 | 2175.0 | 2174.0 | 2168.7 | 2153.9 | 2160.2 | 2229.9 | 2297.4 | 2342.8 |
| 17.5° | 2239.4 | 2222.5 | 2220.4 | 2231.0 | 2234.1 | 2227.8 | 2219.3 | 2247.8 | 2362.9 | 2426.2 | 2449.4 |
| 20° | 2316.4 | 2258.4 | 2245.7 | 2249.9 | 2258.4 | 2255.2 | 2255.2 | 2301.7 | 2420.9 | 2450.5 | 2420.9 |
| 22.5° | 2339.6 | 2257.3 | 2238.3 | 2239.4 | 2251.0 | 2252.1 | 2257.3 | 2305.9 | 2375.5 | 2376.6 | 2331.2 |
| 25° | 2302.7 | 2223.6 | 2209.8 | 2212.0 | 2225.7 | 2224.6 | 2226.7 | 2254.2 | 2284.8 | 2272.1 | 2238.3 |
| 27.5° | 2233.1 | 2164.5 | 2160.2 | 2171.9 | 2189.8 | 2180.3 | 2174.0 | 2181.4 | 2196.1 | 2180.3 | 2150.7 |
| 30° | 2153.9 | 2095.9 | 2098.0 | 2120.1 | 2139.1 | 2123.3 | 2107.5 | 2111.7 | 2112.8 | 2095.9 | 2062.1 |
| 32.5° | 2070.5 | 2027.3 | 2034.7 | 2057.9 | 2080.0 | 2063.2 | 2046.3 | 2044.2 | 2024.1 | 2004.1 | 1971.3 |
| 35° | 1987.2 | 1970.3 | 1979.8 | 1998.8 | 2017.8 | 2004.1 | 1993.5 | 1987.2 | 1943.9 | 1914.4 | 1886.9 |
| 37.5° | 1911.2 | 1923.9 | 1940.7 | 1952.3 | 1958.7 | 1957.6 | 1951.3 | 1936.5 | 1879.5 | 1844.7 | 1808.8 |
| 40° | 1843.6 | 1882.7 | 1900.6 | 1905.9 | 1915.4 | 1913.3 | 1912.2 | 1891.1 | 1816.2 | 1779.3 | 1738.1 |
| 42.5° | 1782.4 | 1837.3 | 1867.9 | 1873.2 | 1878.5 | 1879.5 | 1876.4 | 1845.8 | 1760.3 | 1717.0 | 1678.0 |
| 45° | 1723.3 | 1795.1 | 1834.1 | 1828.9 | 1836.3 | 1836.3 | 1839.4 | 1799.3 | 1705.4 | 1661.1 | 1619.9 |
| 47.5° | 1671.6 | 1756.1 | 1791.9 | 1785.6 | 1789.8 | 1793.0 | 1796.2 | 1749.7 | 1645.2 | 1603.0 | 1560.8 |
| 50° | 1624.1 | 1713.8 | 1744.4 | 1746.6 | 1746.6 | 1753.9 | 1752.9 | 1707.5 | 1594.6 | 1549.2 | 1507.0 |
| 52.5° | 1573.5 | 1670.6 | 1703.3 | 1717.0 | 1721.2 | 1724.4 | 1709.6 | 1656.9 | 1542.9 | 1488.0 | 1449.0 |
| 55° | 1514.4 | 1626.3 | 1655.8 | 1673.7 | 1682.2 | 1680.1 | 1660.0 | 1606.2 | 1490.1 | 1435.2 | 1390.9 |
| 57.5° | 1424.7 | 1531.3 | 1573.5 | 1581.9 | 1595.6 | 1587.2 | 1564.0 | 1518.6 | 1405.7 | 1350.8 | 1305.4 |
| 60° | 1326.5 | 1403.6 | 1437.3 | 1444.7 | 1434.2 | 1437.3 | 1434.2 | 1390.9 | 1292.8 | 1249.5 | 1203.1 |
| 62.5° | 1197.8 | 1266.4 | 1302.3 | 1311.8 | 1293.8 | 1305.4 | 1301.2 | 1247.4 | 1149.2 | 1103.9 | 1062.7 |
| 65° | 1100.7 | 1175.6 | 1217.8 | 1223.1 | 1217.8 | 1223.1 | 1208.3 | 1142.9 | 1050.0 | 1003.6 | 961.4 |
| 67.5° | 1024.7 | 1101.8 | 1146.1 | 1160.9 | 1155.6 | 1154.5 | 1131.3 | 1055.3 | 959.3 | 908.6 | 854.8 |
| 70° | 893.9 | 961.4 | 1018.4 | 1054.3 | 1054.3 | 1034.2 | 989.9 | 919.2 | 842.1 | 798.9 | 756.7 |
| 72.5° | 791.5 | 877.0 | 932.9 | 969.8 | 977.2 | 965.6 | 903.4 | 828.4 | 739.8 | 696.5 | 652.2 |
| 75° | 652.2 | 735.6 | 795.7 | 844.3 | 853.8 | 841.1 | 769.3 | 695.5 | 613.1 | 570.9 | 526.6 |
| 77.5° | 435.8 | 485.4 | 534.0 | 578.3 | 568.8 | 577.3 | 528.7 | 472.8 | 422.1 | 390.5 | 370.4 |
| 80° | 245.9 | 278.6 | 293.4 | 317.7 | 317.7 | 317.7 | 286.0 | 259.6 | 231.1 | 213.2 | 193.1 |
| 82.5° | 139.3 | 160.4 | 166.7 | 186.8 | 192.1 | 193.1 | 172.0 | 155.1 | 137.2 | 127.7 | 114.0 |
| 85° | 64.4 | 76.0 | 77.0 | 88.6 | 92.9 | 101.3 | 91.8 | 80.2 | 69.7 | 65.4 | 57.0 |
| 87.5° | 2.1 | 6.3 | 8.4 | 15.8 | 21.1 | 24.3 | 26.4 | 26.4 | 22.2 | 20.1 | 16.9 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 | 2366.0 |
| 2.5° | 2240.4 | 2265.8 | 2295.3 | 2316.4 | 2354.4 | 2386.1 | 2418.8 | 2454.7 | 2481.1 | 2474.7 |
| 5° | 2127.5 | 2169.7 | 2223.6 | 2273.2 | 2343.9 | 2415.6 | 2494.8 | 2576.0 | 2623.5 | 2621.4 |
| 7.5° | 2064.2 | 2124.4 | 2189.8 | 2256.3 | 2339.6 | 2443.1 | 2564.4 | 2691.1 | 2755.4 | 2758.6 |
| 10° | 2098.0 | 2162.4 | 2206.7 | 2262.6 | 2350.2 | 2480.0 | 2625.6 | 2777.6 | 2851.5 | 2866.3 |
| 12.5° | 2204.6 | 2199.3 | 2196.1 | 2236.2 | 2341.8 | 2506.4 | 2684.7 | 2866.3 | 2949.6 | 2967.6 |
| 15° | 2305.9 | 2197.2 | 2131.8 | 2159.2 | 2303.8 | 2523.3 | 2742.8 | 2963.3 | 3057.3 | 3076.3 |
| 17.5° | 2324.9 | 2160.2 | 2038.9 | 2057.9 | 2243.6 | 2528.6 | 2798.7 | 3058.3 | 3159.6 | 3177.6 |
| 20° | 2272.1 | 2112.8 | 1971.3 | 1945.0 | 2167.6 | 2514.8 | 2833.5 | 3137.5 | 3248.3 | 3267.3 |
| 22.5° | 2205.6 | 2070.5 | 1920.7 | 1852.1 | 2074.8 | 2501.1 | 2872.6 | 3220.8 | 3348.5 | 3365.4 |
| 25° | 2136.0 | 2016.7 | 1873.2 | 1768.7 | 1969.2 | 2492.7 | 2938.0 | 3330.6 | 3484.7 | 3504.7 |
| 27.5° | 2062.1 | 1951.3 | 1832.0 | 1728.6 | 1872.1 | 2503.2 | 3030.9 | 3507.9 | 3683.1 | 3711.6 |
| 30° | 1983.0 | 1885.9 | 1805.7 | 1714.9 | 1805.7 | 2512.7 | 3133.3 | 3689.4 | 3895.2 | 3935.3 |
| 32.5° | 1900.6 | 1825.7 | 1778.2 | 1721.2 | 1764.5 | 2490.6 | 3223.0 | 3893.1 | 4148.5 | 4183.3 |
| 35° | 1818.3 | 1764.5 | 1743.4 | 1732.8 | 1709.6 | 2409.3 | 3295.8 | 4098.9 | 4437.6 | 4468.2 |
| 37.5° | 1741.3 | 1701.2 | 1694.8 | 1706.5 | 1625.2 | 2276.3 | 3380.2 | 4360.6 | 4721.5 | 4767.9 |
| 40° | 1669.5 | 1632.6 | 1631.5 | 1629.4 | 1532.3 | 2094.8 | 3494.2 | 4626.5 | 5001.2 | 5022.3 |
| 42.5° | 1603.0 | 1556.6 | 1565.0 | 1539.7 | 1456.3 | 1898.5 | 3601.8 | 4853.4 | 5261.8 | 5276.6 |
| 45° | 1543.9 | 1482.7 | 1492.2 | 1460.6 | 1420.5 | 1692.7 | 3696.8 | 5121.5 | 5592.2 | 5601.6 |
| 47.5° | 1486.9 | 1421.5 | 1395.1 | 1393.0 | 1414.1 | 1502.8 | 3789.7 | 5637.5 | 6109.3 | 6126.1 |
| 50° | 1434.2 | 1363.5 | 1288.5 | 1335.0 | 1375.1 | 1360.3 | 3905.7 | 6190.5 | 6643.3 | 6639.0 |
| 52.5° | 1383.5 | 1290.7 | 1184.1 | 1273.8 | 1273.8 | 1254.8 | 3873.0 | 6526.1 | 7084.4 | 7157.2 |
| 55° | 1325.5 | 1173.5 | 1075.4 | 1171.4 | 1125.0 | 1159.8 | 3293.7 | 6635.9 | 7361.9 | 7465.3 |
| 57.5° | 1210.5 | 1028.9 | 943.5 | 995.2 | 925.5 | 1075.4 | 2366.0 | 6091.3 | 6890.2 | 7073.8 |
| 60° | 1099.6 | 922.4 | 866.4 | 856.9 | 766.2 | 877.0 | 1533.4 | 4769.0 | 5671.3 | 5764.2 |
| 62.5° | 969.8 | 830.5 | 783.0 | 710.2 | 616.3 | 638.5 | 928.7 | 3138.5 | 3810.8 | 3831.9 |
| 65° | 871.7 | 752.4 | 661.7 | 575.2 | 504.4 | 463.3 | 548.8 | 1513.3 | 1904.9 | 1879.5 |
| 67.5° | 748.2 | 644.8 | 558.3 | 496.0 | 438.0 | 386.2 | 365.1 | 449.6 | 508.7 | 491.8 |
| 70° | 665.9 | 566.7 | 483.3 | 424.2 | 370.4 | 318.7 | 281.8 | 264.9 | 259.6 | 255.4 |
| 72.5° | 574.1 | 487.6 | 401.0 | 344.0 | 293.4 | 245.9 | 212.1 | 192.1 | 186.8 | 182.6 |
| 75° | 458.0 | 376.7 | 297.6 | 243.8 | 199.5 | 165.7 | 143.5 | 126.6 | 123.5 | 119.3 |
| 77.5° | 302.9 | 241.7 | 177.3 | 144.6 | 118.2 | 100.3 | 85.5 | 74.9 | 72.8 | 70.7 |
| 80° | 166.7 | 139.3 | 108.7 | 87.6 | 70.7 | 61.2 | 55.9 | 49.6 | 48.5 | 47.5 |
| 82.5° | 99.2 | 83.4 | 62.3 | 49.6 | 41.2 | 36.9 | 33.8 | 30.6 | 29.5 | 28.5 |
| 85° | 49.6 | 39.0 | 27.4 | 23.2 | 21.1 | 19.0 | 19.0 | 15.8 | 14.8 | 14.8 |
| 87.5° | 12.7 | 10.6 | 6.3 | 5.3 | 5.3 | 5.3 | 4.2 | 3.2 | 3.2 | 2.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)