

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: P641177

Luminaire Tested: GWS-SA5F-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38582.6 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

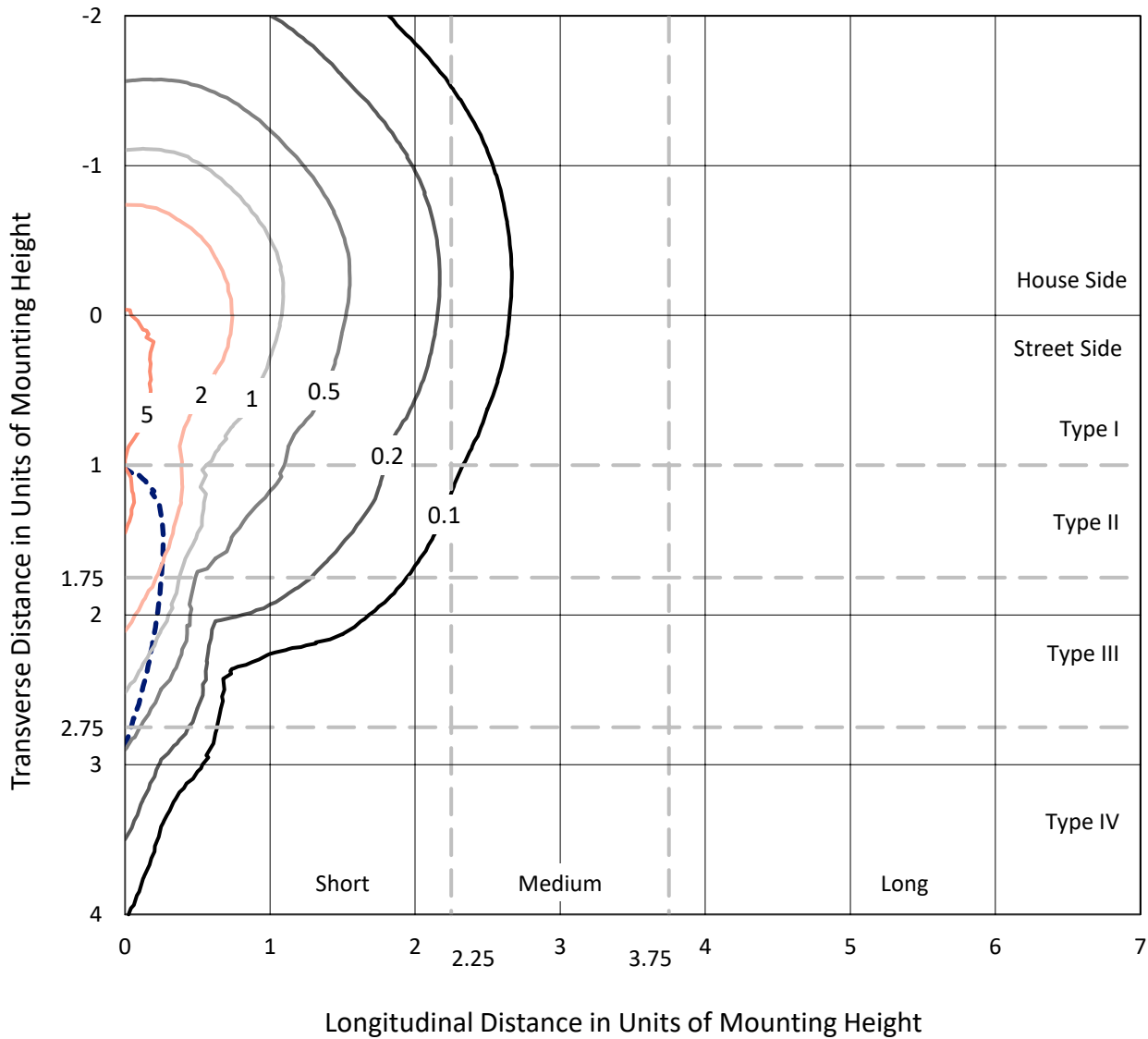
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

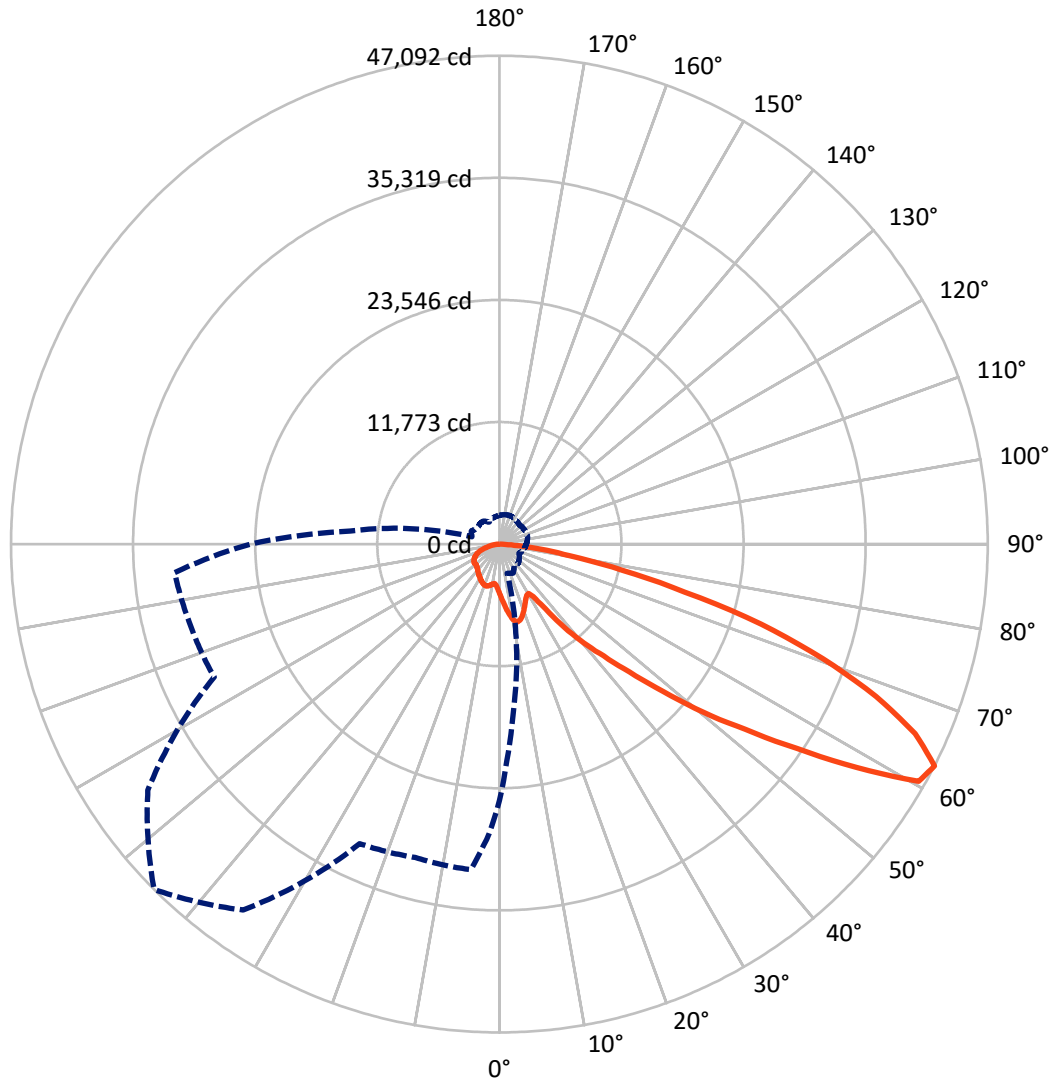
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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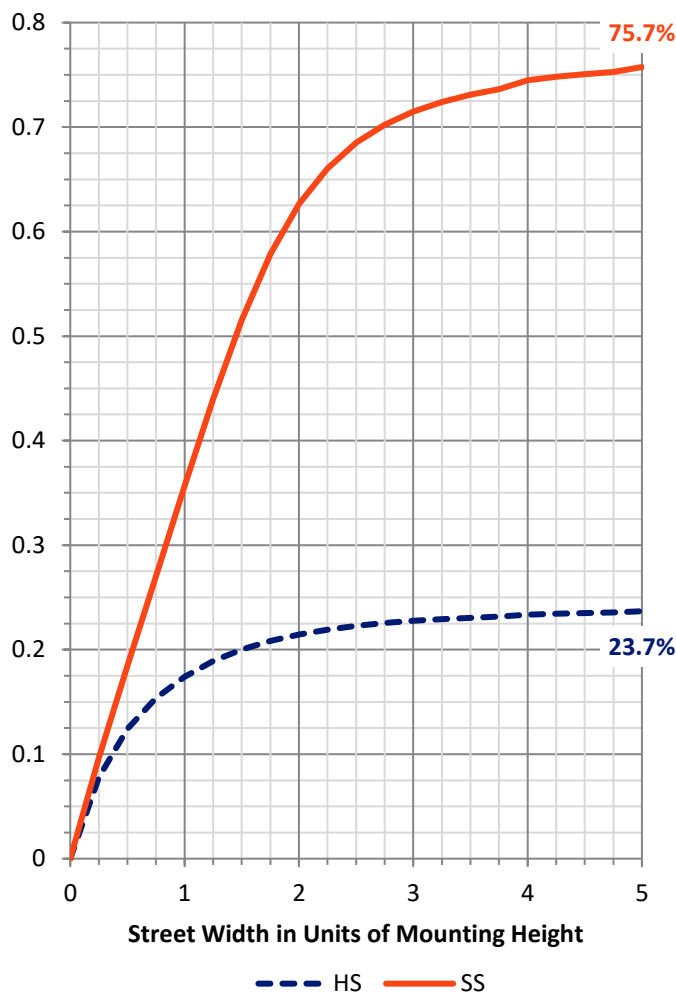
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9225.1 | 0.0 | 9225.1 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 29357.5 | 0.0 | 29357.5 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 38582.6 | 0.0 | 38582.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 473.9 | 1.2 |
| 10°-20° | 1540.2 | 4.0 |
| 20°-30° | 2424.6 | 6.3 |
| 30°-40° | 3323.4 | 8.6 |
| 40°-50° | 5185.5 | 13.4 |
| 50°-60° | 8940.8 | 23.2 |
| 60°-70° | 10361.2 | 26.9 |
| 70°-80° | 5469.1 | 14.2 |
| 80°-90° | 863.9 | 2.2 |
| 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° | 38582.6 | 100.0 |
| 0°-180° | 38582.6 | 100.0 |

Coefficient of Utilization



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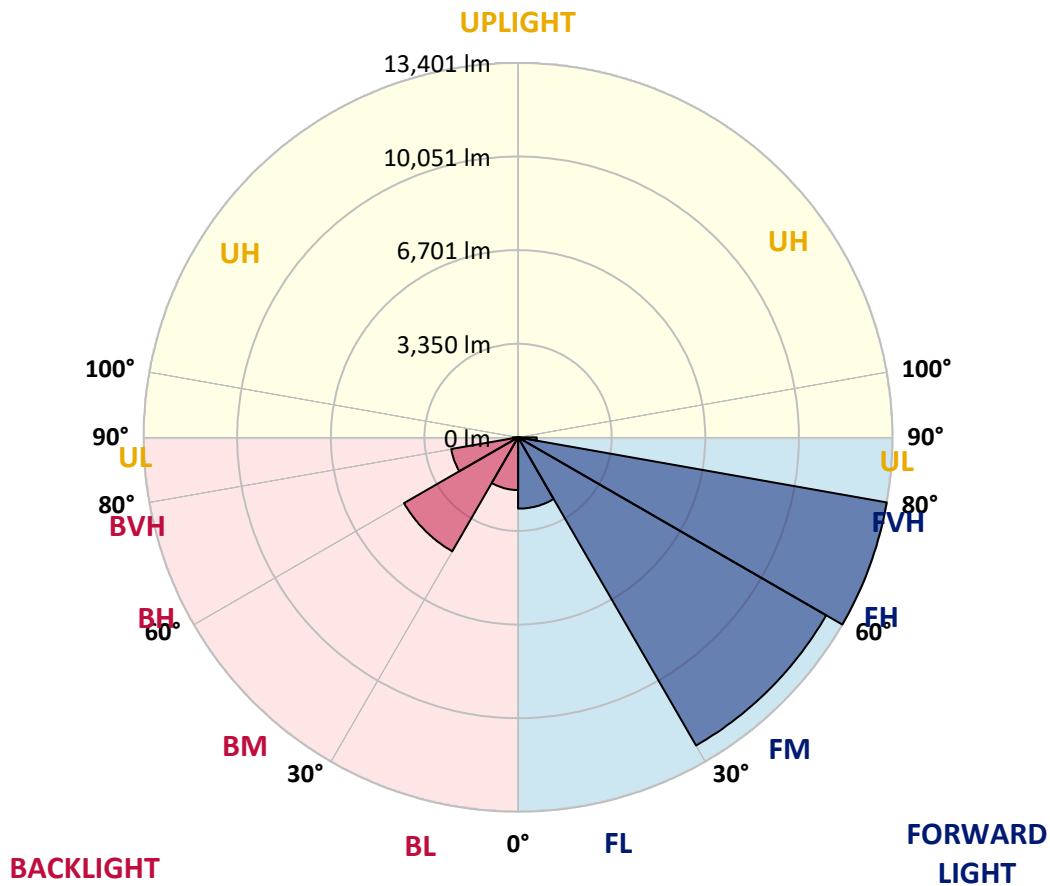
CATALOG NUMBER: GWS-SA5F-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2551.8 | 6.6 | | | |
| FM (30°-60°) | 12737.5 | 33.0 | | | |
| FH (60°-80°) | 13401.4 | 34.7 | | | G5 |
| FVH (80°-90°) | 666.8 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1886.9 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 4712.2 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 2429.0 | 6.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 197.1 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 2° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 |
| 2.5° | 5226.6 | 5205.9 | 5176.4 | 5076.1 | 5014.1 | 4943.3 | 4869.5 | 4783.9 | 4686.5 | 4618.6 | 4550.7 |
| 5° | 5669.2 | 5636.8 | 5566.0 | 5326.9 | 5161.6 | 4981.6 | 4831.1 | 4659.9 | 4491.7 | 4376.6 | 4261.5 |
| 7.5° | 6094.2 | 6052.9 | 5943.7 | 5577.8 | 5309.2 | 5049.5 | 4822.3 | 4574.4 | 4323.5 | 4152.3 | 4016.6 |
| 10° | 6519.2 | 6433.6 | 6294.9 | 5816.8 | 5462.7 | 5161.6 | 4901.9 | 4598.0 | 4264.5 | 4031.3 | 3886.7 |
| 12.5° | 6843.8 | 6764.1 | 6613.6 | 6035.2 | 5616.1 | 5238.4 | 4946.2 | 4665.8 | 4382.5 | 4134.6 | 3987.1 |
| 15° | 7147.8 | 7044.5 | 6873.3 | 6238.8 | 5743.0 | 5235.4 | 4857.7 | 4612.7 | 4571.4 | 4509.4 | 4317.6 |
| 17.5° | 7366.2 | 7271.7 | 7094.7 | 6404.1 | 5813.9 | 5143.9 | 4612.7 | 4468.1 | 4654.0 | 4842.9 | 4659.9 |
| 20° | 7558.0 | 7448.8 | 7268.8 | 6519.2 | 5828.6 | 4940.3 | 4314.7 | 4317.6 | 4609.8 | 4869.5 | 4825.2 |
| 22.5° | 7720.3 | 7599.3 | 7440.0 | 6649.0 | 5822.7 | 4657.0 | 4054.9 | 4232.0 | 4524.2 | 4727.8 | 4733.7 |
| 25° | 7921.0 | 7820.7 | 7687.9 | 6840.9 | 5822.7 | 4367.8 | 3866.1 | 4128.7 | 4379.6 | 4550.7 | 4544.8 |
| 27.5° | 8166.0 | 8098.1 | 7988.9 | 7133.0 | 5875.8 | 4125.8 | 3759.8 | 3995.9 | 4193.7 | 4341.2 | 4338.3 |
| 30° | 8440.4 | 8378.4 | 8295.8 | 7442.9 | 5967.3 | 3945.8 | 3700.8 | 3830.7 | 3975.3 | 4093.3 | 4093.3 |
| 32.5° | 8720.8 | 8697.2 | 8608.6 | 7690.8 | 5896.5 | 3889.7 | 3650.6 | 3665.4 | 3742.1 | 3839.5 | 3830.7 |
| 35° | 9110.3 | 9086.7 | 8974.6 | 7882.6 | 5589.6 | 3810.0 | 3570.9 | 3497.2 | 3506.0 | 3568.0 | 3588.7 |
| 37.5° | 9679.9 | 9644.5 | 9479.2 | 8106.9 | 5126.2 | 3609.3 | 3441.1 | 3320.1 | 3293.5 | 3320.1 | 3358.5 |
| 40° | 10367.6 | 10314.4 | 10090.1 | 8410.9 | 4592.1 | 3337.8 | 3237.5 | 3137.1 | 3092.9 | 3101.7 | 3146.0 |
| 42.5° | 11229.3 | 11117.2 | 10795.5 | 8732.6 | 4063.8 | 3098.8 | 3010.2 | 2948.2 | 2898.1 | 2892.2 | 2977.8 |
| 45° | 12628.2 | 12321.2 | 11810.7 | 9018.9 | 3618.2 | 2971.9 | 2806.6 | 2762.3 | 2721.0 | 2744.6 | 2845.0 |
| 47.5° | 15071.8 | 14505.1 | 13510.6 | 9263.8 | 3346.7 | 2974.8 | 2644.3 | 2597.1 | 2594.1 | 2641.3 | 2753.5 |
| 50° | 18430.2 | 17612.7 | 16078.1 | 9429.1 | 3205.0 | 3010.2 | 2546.9 | 2470.2 | 2526.2 | 2573.4 | 2679.7 |
| 52.5° | 21647.0 | 20398.7 | 18571.9 | 9426.1 | 3143.0 | 3016.1 | 2573.4 | 2352.1 | 2526.2 | 2538.0 | 2638.4 |
| 55° | 24394.6 | 22134.0 | 19244.8 | 8458.1 | 3054.5 | 2992.5 | 2676.7 | 2260.6 | 2493.8 | 2538.0 | 2617.7 |
| 57.5° | 26578.5 | 23237.7 | 19194.6 | 6832.0 | 3323.0 | 2862.7 | 2738.7 | 2240.0 | 2399.3 | 2543.9 | 2635.4 |
| 60° | 26336.5 | 22733.1 | 17958.0 | 4193.7 | 3296.5 | 2632.5 | 2729.9 | 2278.3 | 2240.0 | 2464.2 | 2614.8 |
| 62.5° | 24728.1 | 20924.0 | 15830.2 | 2909.9 | 3095.8 | 2499.7 | 2585.2 | 2346.2 | 2092.4 | 2349.2 | 2514.4 |
| 65° | 22476.3 | 18589.6 | 13191.9 | 2231.1 | 2564.6 | 2505.6 | 2340.3 | 2299.0 | 1962.5 | 2166.2 | 2343.3 |
| 67.5° | 19498.6 | 15694.5 | 10414.8 | 1767.8 | 1788.4 | 2169.1 | 2124.9 | 2042.2 | 1841.5 | 2003.9 | 2163.2 |
| 70° | 14658.6 | 11453.6 | 7165.5 | 1422.5 | 1354.6 | 1812.0 | 1909.4 | 1835.6 | 1723.5 | 1770.7 | 1938.9 |
| 72.5° | 10329.2 | 7478.3 | 3925.1 | 1127.4 | 1044.7 | 1393.0 | 1658.6 | 1646.8 | 1522.8 | 1558.2 | 1723.5 |
| 75° | 7676.1 | 5291.5 | 2452.4 | 891.3 | 849.9 | 997.5 | 1390.0 | 1425.4 | 1322.1 | 1363.5 | 1490.4 |
| 77.5° | 5108.5 | 3426.3 | 1363.5 | 661.1 | 661.1 | 728.9 | 1035.9 | 1201.1 | 1124.4 | 1156.9 | 1245.4 |
| 80° | 2818.4 | 1744.2 | 681.7 | 433.8 | 445.6 | 501.7 | 755.5 | 864.7 | 867.7 | 947.3 | 970.9 |
| 82.5° | 891.3 | 554.8 | 304.0 | 253.8 | 239.0 | 286.3 | 486.9 | 619.8 | 578.4 | 737.8 | 678.8 |
| 85° | 203.6 | 129.9 | 56.1 | 56.1 | 62.0 | 94.4 | 185.9 | 330.5 | 422.0 | 507.6 | 368.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 129.9 | 191.8 | 171.2 |
| 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-SA5F-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 |
| 2.5° | 4509.4 | 4450.4 | 4432.7 | 4382.5 | 4376.6 | 4329.4 | 4311.7 | 4311.7 | 4332.4 | 4332.4 | 4353.0 |
| 5° | 4214.3 | 4140.5 | 4099.2 | 4040.2 | 4025.4 | 3990.0 | 3966.4 | 3969.4 | 3995.9 | 4013.6 | 4049.0 |
| 7.5° | 3954.6 | 3904.4 | 3874.9 | 3848.4 | 3842.5 | 3836.6 | 3810.0 | 3807.0 | 3815.9 | 3842.5 | 3869.0 |
| 10° | 3845.4 | 3810.0 | 3818.8 | 3839.5 | 3872.0 | 3889.7 | 3866.1 | 3854.3 | 3845.4 | 3863.1 | 3886.7 |
| 12.5° | 3951.7 | 3916.2 | 3933.9 | 3969.4 | 4013.6 | 4031.3 | 4022.5 | 4019.5 | 4028.4 | 4096.3 | 4146.4 |
| 15° | 4184.8 | 4116.9 | 4093.3 | 4108.1 | 4143.5 | 4161.2 | 4152.3 | 4164.1 | 4220.2 | 4397.3 | 4524.2 |
| 17.5° | 4474.0 | 4308.7 | 4214.3 | 4187.7 | 4202.5 | 4217.3 | 4217.3 | 4246.8 | 4344.2 | 4603.9 | 4763.2 |
| 20° | 4630.4 | 4415.0 | 4255.6 | 4190.7 | 4196.6 | 4211.4 | 4211.4 | 4252.7 | 4361.9 | 4639.3 | 4742.6 |
| 22.5° | 4589.1 | 4391.4 | 4196.6 | 4125.8 | 4128.7 | 4140.5 | 4140.5 | 4175.9 | 4273.3 | 4518.3 | 4565.5 |
| 25° | 4426.8 | 4252.7 | 4060.8 | 3998.9 | 4004.8 | 4025.4 | 4019.5 | 4040.2 | 4114.0 | 4314.7 | 4341.2 |
| 27.5° | 4232.0 | 4078.6 | 3889.7 | 3842.5 | 3869.0 | 3910.3 | 3874.9 | 3877.9 | 3945.8 | 4114.0 | 4116.9 |
| 30° | 4022.5 | 3895.6 | 3727.4 | 3691.9 | 3742.1 | 3762.8 | 3730.3 | 3730.3 | 3798.2 | 3913.3 | 3910.3 |
| 32.5° | 3795.2 | 3715.6 | 3594.6 | 3556.2 | 3612.3 | 3644.7 | 3603.4 | 3609.3 | 3662.4 | 3739.2 | 3709.7 |
| 35° | 3582.8 | 3541.4 | 3485.4 | 3458.8 | 3494.2 | 3523.7 | 3497.2 | 3509.0 | 3559.1 | 3579.8 | 3538.5 |
| 37.5° | 3379.1 | 3373.2 | 3379.1 | 3379.1 | 3388.0 | 3396.8 | 3379.1 | 3408.6 | 3452.9 | 3426.3 | 3379.1 |
| 40° | 3202.0 | 3225.7 | 3281.7 | 3267.0 | 3258.1 | 3267.0 | 3255.2 | 3305.3 | 3349.6 | 3302.4 | 3246.3 |
| 42.5° | 3054.5 | 3098.8 | 3184.3 | 3184.3 | 3166.6 | 3172.5 | 3166.6 | 3228.6 | 3261.1 | 3196.1 | 3134.2 |
| 45° | 2927.6 | 2992.5 | 3101.7 | 3116.5 | 3087.0 | 3087.0 | 3098.8 | 3175.5 | 3187.3 | 3098.8 | 3033.8 |
| 47.5° | 2839.1 | 2918.7 | 3042.7 | 3069.2 | 3025.0 | 3022.0 | 3054.5 | 3137.1 | 3137.1 | 3033.8 | 2960.1 |
| 50° | 2777.1 | 2865.6 | 3013.2 | 3048.6 | 3004.3 | 2992.5 | 3045.6 | 3125.3 | 3107.6 | 2983.7 | 2909.9 |
| 52.5° | 2735.8 | 2827.2 | 3010.2 | 3060.4 | 3030.9 | 3019.1 | 3072.2 | 3128.3 | 3084.0 | 2951.2 | 2874.5 |
| 55° | 2709.2 | 2809.5 | 3019.1 | 3060.4 | 3027.9 | 3007.3 | 3060.4 | 3110.6 | 3087.0 | 2933.5 | 2859.7 |
| 57.5° | 2724.0 | 2824.3 | 3007.3 | 3027.9 | 2989.6 | 2954.1 | 3016.1 | 3087.0 | 3078.1 | 2939.4 | 2865.6 |
| 60° | 2700.3 | 2791.8 | 2942.3 | 2948.2 | 2883.3 | 2827.2 | 2918.7 | 3025.0 | 3025.0 | 2918.7 | 2853.8 |
| 62.5° | 2591.2 | 2682.6 | 2815.4 | 2821.3 | 2747.6 | 2685.6 | 2791.8 | 2918.7 | 2915.8 | 2830.2 | 2762.3 |
| 65° | 2411.1 | 2496.7 | 2647.2 | 2662.0 | 2588.2 | 2523.3 | 2632.5 | 2750.5 | 2759.4 | 2682.6 | 2623.6 |
| 67.5° | 2213.4 | 2290.1 | 2402.3 | 2461.3 | 2399.3 | 2331.4 | 2431.8 | 2543.9 | 2541.0 | 2449.5 | 2387.5 |
| 70° | 1977.3 | 2048.1 | 2151.4 | 2201.6 | 2163.2 | 2098.3 | 2189.8 | 2248.8 | 2222.3 | 2178.0 | 2136.7 |
| 72.5° | 1744.2 | 1812.0 | 1909.4 | 1909.4 | 1868.1 | 1806.1 | 1832.7 | 1938.9 | 1971.4 | 1938.9 | 1912.4 |
| 75° | 1499.2 | 1558.2 | 1626.1 | 1640.9 | 1549.4 | 1437.2 | 1561.2 | 1652.7 | 1691.0 | 1676.3 | 1643.8 |
| 77.5° | 1248.4 | 1292.6 | 1393.0 | 1366.4 | 1195.2 | 1136.2 | 1236.6 | 1372.3 | 1398.9 | 1390.0 | 1345.7 |
| 80° | 962.1 | 988.7 | 1094.9 | 1041.8 | 909.0 | 870.6 | 914.9 | 1021.1 | 1027.0 | 997.5 | 941.4 |
| 82.5° | 646.3 | 681.7 | 752.6 | 649.3 | 646.3 | 610.9 | 575.5 | 587.3 | 640.4 | 634.5 | 596.1 |
| 85° | 330.5 | 348.2 | 416.1 | 389.6 | 333.5 | 289.2 | 274.5 | 292.2 | 262.7 | 239.0 | 206.6 |
| 87.5° | 138.7 | 150.5 | 206.6 | 115.1 | 35.4 | 0.0 | 0.0 | 17.7 | 26.6 | 38.4 | 41.3 |
| 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-SA5F-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 |
| 2.5° | 4400.2 | 4432.7 | 4512.4 | 4612.7 | 4710.1 | 4810.5 | 4919.6 | 4987.5 | 5070.2 | 5176.4 | 5179.4 |
| 5° | 4093.3 | 4167.1 | 4282.2 | 4435.6 | 4595.0 | 4778.0 | 4990.5 | 5167.5 | 5380.0 | 5548.3 | 5616.1 |
| 7.5° | 3904.4 | 4010.7 | 4155.3 | 4350.1 | 4559.6 | 4786.8 | 5064.3 | 5362.3 | 5710.6 | 5934.9 | 6067.7 |
| 10° | 3922.1 | 4084.5 | 4229.1 | 4394.3 | 4583.2 | 4828.2 | 5185.3 | 5580.7 | 6008.6 | 6303.8 | 6469.0 |
| 12.5° | 4237.9 | 4409.1 | 4382.5 | 4373.7 | 4500.6 | 4798.6 | 5282.6 | 5802.1 | 6324.4 | 6619.5 | 6817.3 |
| 15° | 4636.3 | 4701.3 | 4450.4 | 4261.5 | 4338.3 | 4692.4 | 5335.8 | 5999.8 | 6587.1 | 6947.1 | 7141.9 |
| 17.5° | 4840.0 | 4710.1 | 4406.1 | 4122.8 | 4102.2 | 4530.1 | 5362.3 | 6200.5 | 6882.2 | 7242.2 | 7448.8 |
| 20° | 4745.5 | 4556.6 | 4299.9 | 4031.3 | 3883.8 | 4308.7 | 5347.6 | 6359.8 | 7150.8 | 7552.1 | 7720.3 |
| 22.5° | 4541.9 | 4376.6 | 4175.9 | 3919.2 | 3706.7 | 4066.7 | 5309.2 | 6519.2 | 7389.8 | 7794.1 | 7941.7 |
| 25° | 4320.6 | 4196.6 | 4031.3 | 3807.0 | 3606.4 | 3854.3 | 5282.6 | 6731.7 | 7664.3 | 8050.9 | 8145.3 |
| 27.5° | 4099.2 | 4007.7 | 3872.0 | 3697.8 | 3582.8 | 3706.7 | 5291.5 | 7009.1 | 8018.4 | 8384.4 | 8346.0 |
| 30° | 3880.8 | 3801.1 | 3706.7 | 3630.0 | 3579.8 | 3671.3 | 5267.9 | 7304.2 | 8408.0 | 8747.3 | 8520.1 |
| 32.5° | 3674.2 | 3600.5 | 3541.4 | 3553.2 | 3582.8 | 3686.0 | 5146.9 | 7572.8 | 8765.1 | 9054.3 | 8709.0 |
| 35° | 3497.2 | 3420.4 | 3420.4 | 3461.8 | 3570.9 | 3635.9 | 4834.1 | 7782.3 | 9160.5 | 9449.7 | 8977.5 |
| 37.5° | 3331.9 | 3264.0 | 3308.3 | 3376.2 | 3479.5 | 3500.1 | 4432.7 | 7985.9 | 9736.0 | 10007.5 | 9393.7 |
| 40° | 3187.3 | 3119.4 | 3199.1 | 3284.7 | 3337.8 | 3329.0 | 4025.4 | 8269.3 | 10414.8 | 10695.1 | 9945.5 |
| 42.5° | 3072.2 | 3010.2 | 3081.0 | 3190.2 | 3199.1 | 3208.0 | 3727.4 | 8540.8 | 11202.7 | 11559.8 | 10895.8 |
| 45° | 2977.8 | 2933.5 | 2968.9 | 3078.1 | 3078.1 | 3213.9 | 3541.4 | 8768.0 | 12389.1 | 13020.7 | 12640.0 |
| 47.5° | 2904.0 | 2877.4 | 2895.1 | 2930.5 | 2989.6 | 3320.1 | 3423.4 | 8942.1 | 14549.4 | 15788.9 | 15405.2 |
| 50° | 2862.7 | 2836.1 | 2859.7 | 2785.9 | 2963.0 | 3373.2 | 3385.0 | 9074.9 | 17397.3 | 19339.2 | 18864.1 |
| 52.5° | 2827.2 | 2818.4 | 2833.1 | 2662.0 | 3022.0 | 3337.8 | 3355.5 | 8897.9 | 19306.7 | 22833.4 | 23302.7 |
| 55° | 2815.4 | 2821.3 | 2750.5 | 2570.5 | 3092.9 | 3219.8 | 3267.0 | 7631.8 | 19826.1 | 25846.6 | 28759.4 |
| 57.5° | 2821.3 | 2803.6 | 2623.6 | 2579.3 | 3095.8 | 2983.7 | 3393.9 | 5445.0 | 19070.6 | 27156.9 | 34098.1 |
| 60° | 2800.7 | 2712.2 | 2470.2 | 2659.0 | 2960.1 | 2706.2 | 3302.4 | 3550.3 | 17078.6 | 26150.6 | 34408.0 |
| 62.5° | 2709.2 | 2579.3 | 2337.3 | 2703.3 | 2718.1 | 2541.0 | 2998.4 | 2735.8 | 14422.5 | 23996.2 | 31421.4 |
| 65° | 2576.4 | 2402.3 | 2225.2 | 2611.8 | 2473.1 | 2464.2 | 2254.7 | 2192.7 | 11598.2 | 21431.6 | 28588.2 |
| 67.5° | 2358.0 | 2183.9 | 2142.6 | 2402.3 | 2225.2 | 2183.9 | 1812.0 | 1817.9 | 9255.0 | 18698.8 | 25740.3 |
| 70° | 2110.1 | 1936.0 | 1968.4 | 2172.1 | 1980.3 | 1815.0 | 1466.7 | 1514.0 | 7020.9 | 15579.4 | 21900.8 |
| 72.5° | 1947.8 | 1714.6 | 1717.6 | 1912.4 | 1741.2 | 1469.7 | 1207.0 | 1248.4 | 4456.3 | 11742.8 | 17412.1 |
| 75° | 1643.8 | 1511.0 | 1446.1 | 1549.4 | 1478.5 | 1145.1 | 1015.2 | 1006.4 | 2641.3 | 8416.8 | 13038.4 |
| 77.5° | 1372.3 | 1269.0 | 1236.6 | 1277.9 | 1103.7 | 847.0 | 817.5 | 802.7 | 1496.3 | 5391.8 | 8543.7 |
| 80° | 994.6 | 968.0 | 965.0 | 985.7 | 849.9 | 622.7 | 622.7 | 625.7 | 805.7 | 2927.6 | 4816.4 |
| 82.5° | 631.6 | 690.6 | 610.9 | 678.8 | 578.4 | 442.7 | 413.2 | 469.2 | 463.3 | 1248.4 | 2030.4 |
| 85° | 262.7 | 360.0 | 336.4 | 357.1 | 274.5 | 242.0 | 259.7 | 280.4 | 268.6 | 481.0 | 790.9 |
| 87.5° | 50.2 | 59.0 | 64.9 | 62.0 | 62.0 | 76.7 | 85.6 | 103.3 | 103.3 | 138.7 | 239.0 |
| 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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| 0° | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 | 4810.5 |
| 2.5° | 5291.5 | 5377.1 | 5359.4 | 5397.7 | 5347.6 | 5365.3 | 5264.9 | 5238.4 | 5220.7 | 5226.6 |
| 5° | 5834.5 | 6008.6 | 6041.1 | 6106.0 | 6061.8 | 6061.8 | 5884.7 | 5751.9 | 5704.7 | 5669.2 |
| 7.5° | 6386.4 | 6637.2 | 6802.5 | 6820.2 | 6796.6 | 6749.4 | 6492.6 | 6253.6 | 6168.0 | 6094.2 |
| 10° | 6876.3 | 7177.3 | 7363.2 | 7451.8 | 7407.5 | 7333.7 | 7015.0 | 6687.4 | 6584.1 | 6519.2 |
| 12.5° | 7251.1 | 7516.7 | 7640.6 | 7699.7 | 7693.8 | 7667.2 | 7407.5 | 7053.4 | 6944.2 | 6843.8 |
| 15° | 7493.1 | 7625.9 | 7578.7 | 7575.7 | 7617.0 | 7723.3 | 7643.6 | 7366.2 | 7239.3 | 7147.8 |
| 17.5° | 7649.5 | 7522.6 | 7313.1 | 7215.7 | 7304.2 | 7555.1 | 7738.0 | 7581.6 | 7466.5 | 7366.2 |
| 20° | 7705.6 | 7254.0 | 6950.1 | 6770.0 | 6873.3 | 7236.3 | 7687.9 | 7738.0 | 7640.6 | 7558.0 |
| 22.5° | 7640.6 | 6926.5 | 6513.3 | 6300.8 | 6401.1 | 6835.0 | 7540.3 | 7864.9 | 7800.0 | 7720.3 |
| 25° | 7481.3 | 6584.1 | 6088.3 | 5896.5 | 6005.7 | 6448.4 | 7277.7 | 7983.0 | 7985.9 | 7921.0 |
| 27.5° | 7283.6 | 6268.3 | 5790.2 | 5610.2 | 5716.5 | 6129.6 | 7020.9 | 8086.3 | 8189.6 | 8166.0 |
| 30° | 7082.9 | 6079.5 | 5648.6 | 5521.7 | 5601.4 | 5967.3 | 6758.2 | 8192.5 | 8399.1 | 8440.4 |
| 32.5° | 6991.4 | 6171.0 | 5982.1 | 6038.1 | 5934.9 | 6061.8 | 6663.8 | 8343.0 | 8652.9 | 8720.8 |
| 35° | 7112.4 | 6982.5 | 7460.6 | 7682.0 | 7316.0 | 6835.0 | 6784.8 | 8570.3 | 9010.0 | 9110.3 |
| 37.5° | 7699.7 | 8720.8 | 9435.0 | 10214.1 | 9579.6 | 8520.1 | 7383.9 | 8956.9 | 9520.6 | 9679.9 |
| 40° | 8977.5 | 10237.7 | 11527.4 | 12533.7 | 11574.6 | 10149.2 | 8523.1 | 9532.4 | 10222.9 | 10367.6 |
| 42.5° | 10181.6 | 11660.2 | 13436.8 | 14738.3 | 13492.9 | 11480.2 | 9750.8 | 10500.4 | 11149.6 | 11229.3 |
| 45° | 11362.1 | 13056.1 | 15747.6 | 17556.7 | 15865.6 | 12746.2 | 11005.0 | 12135.3 | 12625.2 | 12628.2 |
| 47.5° | 12746.2 | 14629.1 | 18645.7 | 21222.1 | 19014.6 | 14148.0 | 12182.5 | 14723.5 | 15405.2 | 15071.8 |
| 50° | 14401.8 | 16193.2 | 21629.3 | 25486.5 | 22854.1 | 15871.5 | 13678.8 | 17878.4 | 18808.0 | 18430.2 |
| 52.5° | 16618.2 | 17916.7 | 24917.0 | 29644.8 | 27038.9 | 17834.1 | 15847.9 | 22045.4 | 22352.4 | 21647.0 |
| 55° | 19737.6 | 20404.6 | 29137.2 | 34779.9 | 31710.6 | 20251.1 | 19020.5 | 27275.0 | 26416.2 | 24394.6 |
| 57.5° | 26841.1 | 24341.5 | 34555.6 | 40638.0 | 36996.2 | 24642.5 | 25973.5 | 33041.6 | 29987.1 | 26578.5 |
| 60° | 32784.8 | 29122.4 | 39569.7 | 46451.8 | 41526.3 | 29482.5 | 32501.5 | 34045.0 | 29854.3 | 26336.5 |
| 62.5° | 30781.0 | 30341.3 | 41378.7 | 47092.3 | 43072.7 | 31864.1 | 31288.6 | 31515.8 | 27906.5 | 24728.1 |
| 65° | 27006.4 | 27989.2 | 39764.4 | 44055.5 | 41358.1 | 29730.4 | 28302.0 | 29178.5 | 25678.4 | 22476.3 |
| 67.5° | 24778.3 | 25501.3 | 36892.9 | 39194.8 | 38241.6 | 27422.5 | 25979.4 | 25344.9 | 22219.6 | 19498.6 |
| 70° | 22499.9 | 23099.0 | 32861.6 | 33094.7 | 33381.0 | 23586.0 | 21242.7 | 19354.0 | 16562.1 | 14658.6 |
| 72.5° | 19442.5 | 19474.9 | 27764.9 | 26413.2 | 26956.2 | 18456.8 | 17099.2 | 14469.7 | 12055.6 | 10329.2 |
| 75° | 16311.3 | 15420.0 | 21977.6 | 18462.7 | 19551.7 | 14357.6 | 14198.2 | 10904.7 | 9092.6 | 7676.1 |
| 77.5° | 12436.3 | 11394.6 | 16054.5 | 12141.2 | 13731.9 | 9561.9 | 10674.5 | 7395.7 | 6398.2 | 5108.5 |
| 80° | 8348.9 | 7699.7 | 8871.3 | 6852.7 | 8983.4 | 6590.0 | 6961.9 | 4190.7 | 3632.9 | 2818.4 |
| 82.5° | 4403.2 | 3759.8 | 5483.3 | 4063.8 | 5418.4 | 3621.1 | 2611.8 | 1295.6 | 1103.7 | 891.3 |
| 85° | 1705.8 | 1974.4 | 2688.5 | 1446.1 | 2101.3 | 1292.6 | 755.5 | 321.7 | 268.6 | 203.6 |
| 87.5° | 330.5 | 510.6 | 280.4 | 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 |

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