

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: P639969

Luminaire Tested: GWS-SA5C-830-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639969  
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-SA5C-830-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

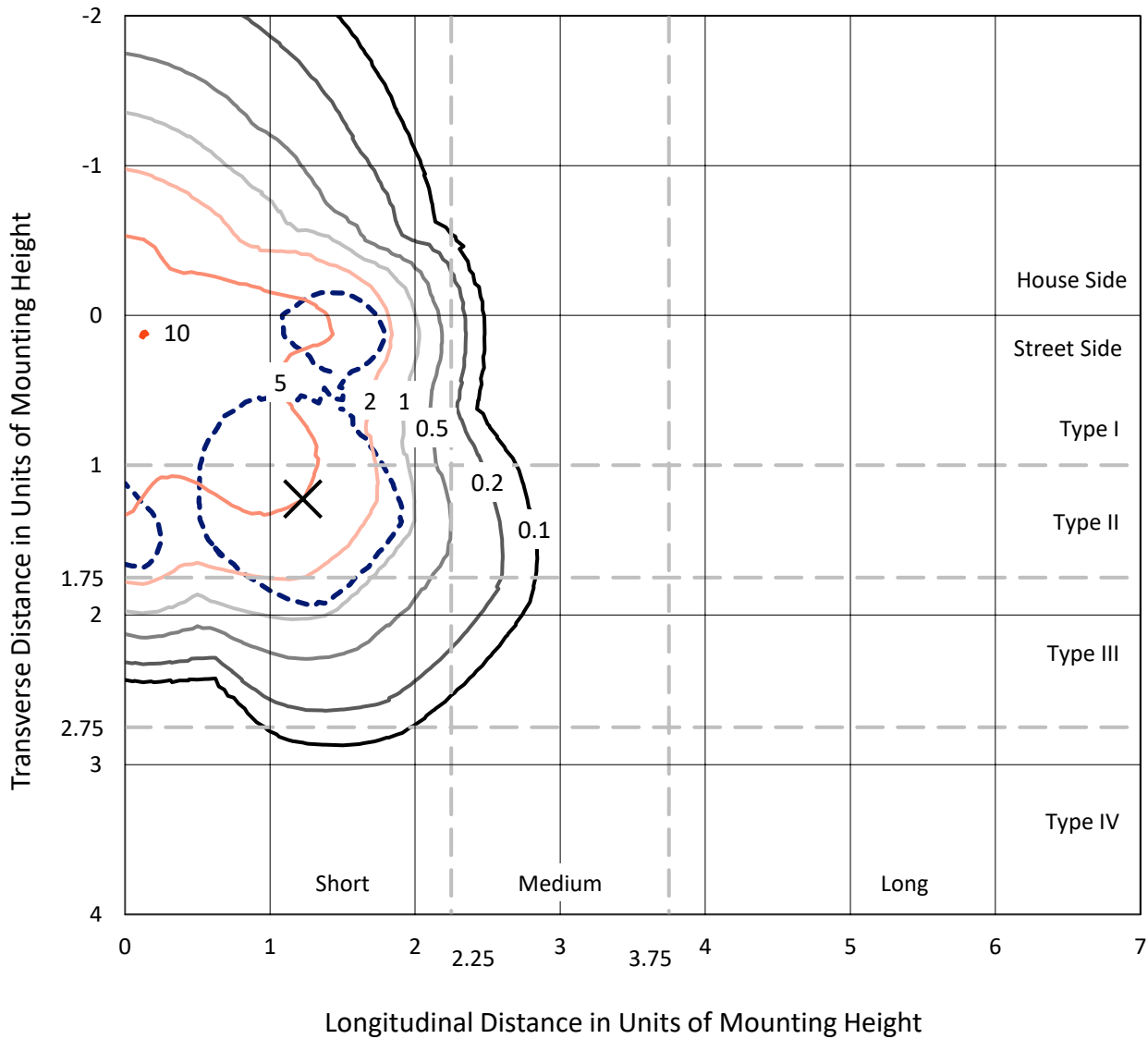
Lumens per Lamp: N/A  
Luminaire Lumens: 14800 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

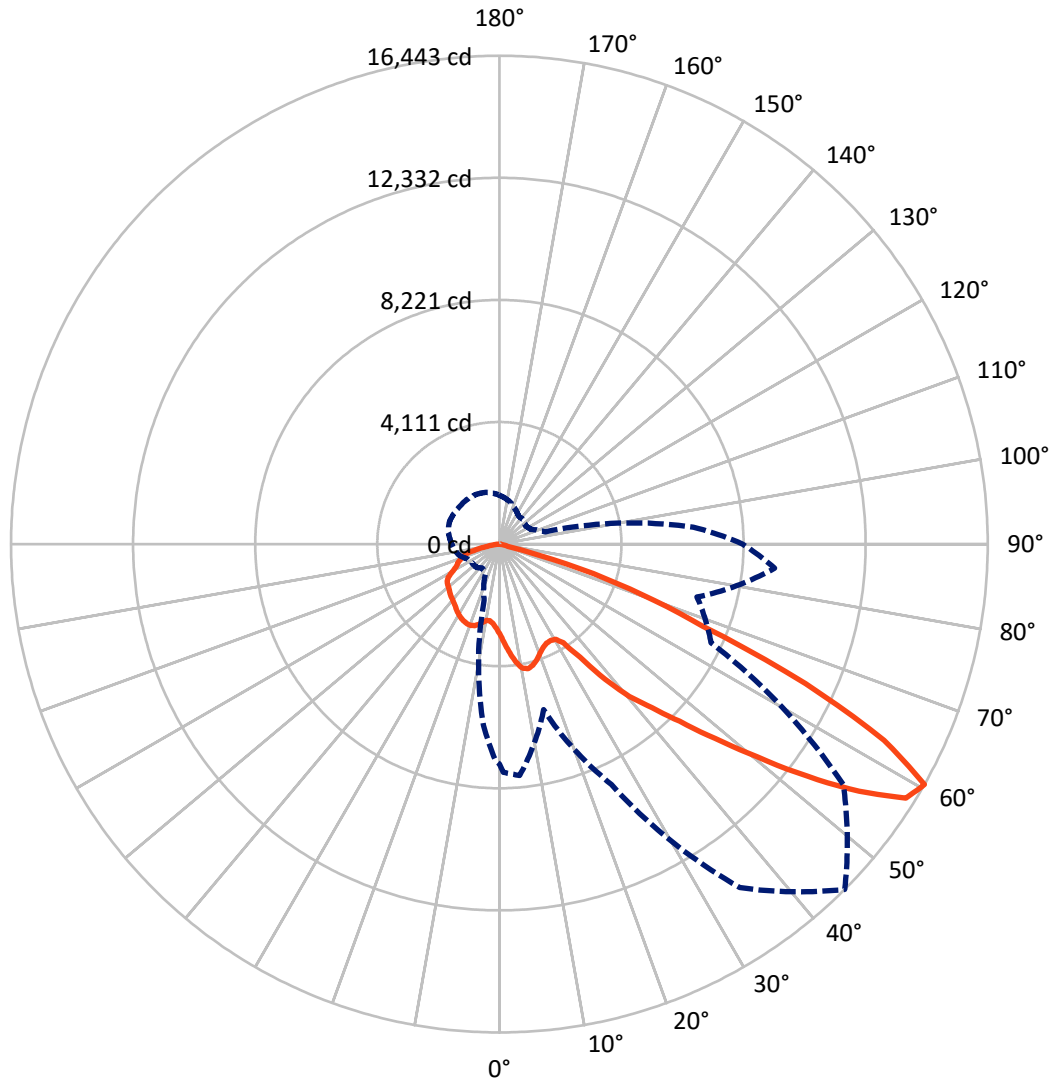
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 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   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5187.9   | 0.0    | 5187.9  |
|                    | % Fixture | 35.1     | 0.0    | 35.1    |
| <b>Street Side</b> | Lumens    | 9612.1   | 0.0    | 9612.1  |
|                    | % Fixture | 64.9     | 0.0    | 64.9    |
| <b>Total</b>       | Lumens    | 14800.0  | 0.0    | 14800.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 296.6   | 2.0       |
| 10°-20°   | 937.4   | 6.3       |
| 20°-30°   | 1522.7  | 10.3      |
| 30°-40°   | 2147.4  | 14.5      |
| 40°-50°   | 2967.6  | 20.1      |
| 50°-60°   | 3820.2  | 25.8      |
| 60°-70°   | 2420.5  | 16.4      |
| 70°-80°   | 621.1   | 4.2       |
| 80°-90°   | 66.4    | 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°    | 14800.0 | 100.0     |
| 0°-180°   | 14800.0 | 100.0     |

**Coefficient of Utilization**



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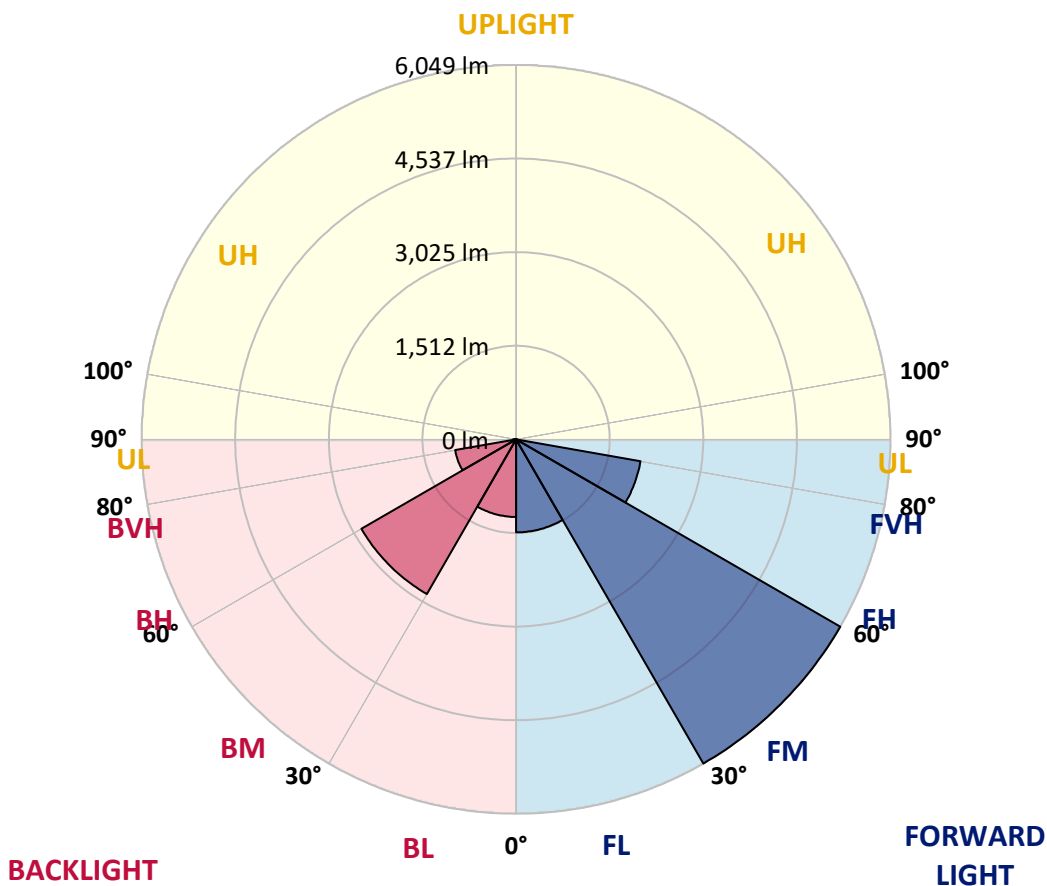
CATALOG NUMBER: GWS-SA5C-830-U-SLR-W-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1502.8 | 10.2      |                         |      |         |
| FM (30°-60°)   | 6049.4 | 40.9      |                         |      |         |
| FH (60°-80°)   | 2041.9 | 13.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 18.0   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1253.9 | 8.5       | B3/2500                 |      |         |
| BM (30°-60°)   | 2885.9 | 19.5      | B3/5000                 |      |         |
| BH (60°-80°)   | 999.8  | 6.8       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 48.4   | 0.3       |                         |      | G1/100  |
| 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°    | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4  | 3040.4  | 3040.4  | 3040.4 | 3040.4 | 3040.4  |
| 2.5°  | 3180.0 | 3201.7 | 3215.3 | 3241.1 | 3287.2 | 3312.9  | 3341.4  | 3310.2  | 3318.4 | 3314.3 | 3264.1  |
| 5°    | 3368.5 | 3394.3 | 3429.6 | 3505.5 | 3590.9 | 3638.4  | 3683.1  | 3676.4  | 3634.3 | 3563.8 | 3513.6  |
| 7.5°  | 3544.8 | 3574.7 | 3635.7 | 3759.1 | 3885.2 | 3958.4  | 4012.7  | 3977.4  | 3942.2 | 3831.0 | 3704.8  |
| 10°   | 3683.1 | 3700.8 | 3783.5 | 3948.9 | 4095.4 | 4178.1  | 4244.6  | 4236.4  | 4187.6 | 4062.8 | 3893.3  |
| 12.5° | 3813.3 | 3825.5 | 3915.0 | 4080.5 | 4212.0 | 4248.6  | 4302.9  | 4320.5  | 4304.2 | 4210.7 | 4043.9  |
| 15°   | 3953.0 | 3976.1 | 4058.8 | 4184.9 | 4244.6 | 4206.6  | 4225.6  | 4274.4  | 4320.5 | 4320.5 | 4167.3  |
| 17.5° | 4083.2 | 4103.5 | 4187.6 | 4241.8 | 4184.9 | 4084.5  | 4090.0  | 4152.3  | 4262.2 | 4377.5 | 4279.8  |
| 20°   | 4198.5 | 4217.4 | 4300.2 | 4248.6 | 4068.3 | 3921.8  | 3917.7  | 3993.7  | 4171.3 | 4414.1 | 4400.5  |
| 22.5° | 4324.6 | 4351.7 | 4420.9 | 4254.1 | 3959.8 | 3774.0  | 3772.6  | 3851.3  | 4091.3 | 4450.7 | 4538.8  |
| 25°   | 4503.6 | 4545.6 | 4580.9 | 4301.5 | 3901.5 | 3677.7  | 3695.3  | 3769.9  | 4065.6 | 4510.4 | 4743.6  |
| 27.5° | 4769.4 | 4803.3 | 4800.6 | 4400.5 | 3898.8 | 3638.4  | 3675.0  | 3761.8  | 4111.7 | 4616.1 | 4959.2  |
| 30°   | 5056.9 | 5074.5 | 5046.0 | 4538.8 | 3961.1 | 3662.8  | 3717.0  | 3820.1  | 4228.3 | 4791.1 | 5276.5  |
| 32.5° | 5375.5 | 5397.2 | 5343.0 | 4746.3 | 4106.2 | 3843.2  | 3962.5  | 4012.7  | 4392.4 | 5043.3 | 5612.9  |
| 35°   | 5741.7 | 5783.7 | 5671.2 | 5020.2 | 4533.4 | 4500.9  | 4674.4  | 4609.3  | 4740.9 | 5341.6 | 5972.2  |
| 37.5° | 6126.8 | 6128.2 | 5966.8 | 5425.7 | 5371.5 | 5427.1  | 5774.2  | 5570.8  | 5480.0 | 5673.9 | 6338.4  |
| 40°   | 6453.6 | 6445.5 | 6197.3 | 5972.2 | 6101.0 | 6322.1  | 6741.1  | 6429.2  | 6190.6 | 6120.0 | 6642.1  |
| 42.5° | 6780.5 | 6750.6 | 6499.7 | 6319.4 | 6604.2 | 7058.4  | 7531.7  | 7149.3  | 6646.2 | 6525.5 | 6941.8  |
| 45°   | 7198.1 | 7188.6 | 6886.2 | 6457.7 | 7058.4 | 7883.0  | 8510.8  | 7891.1  | 6916.1 | 6761.5 | 7440.9  |
| 47.5° | 7872.1 | 7826.0 | 7263.2 | 6446.9 | 7484.3 | 8981.4  | 9774.7  | 8825.4  | 7104.6 | 6766.9 | 8246.4  |
| 50°   | 8531.2 | 8474.2 | 7713.4 | 6445.5 | 7923.6 | 10120.5 | 11266.4 | 9960.5  | 7297.1 | 6799.4 | 9065.5  |
| 52.5° | 9197.0 | 9197.0 | 8452.5 | 6598.7 | 8384.7 | 11392.5 | 12990.0 | 11374.9 | 7625.3 | 7225.2 | 10073.0 |
| 55°   | 9593.0 | 9698.8 | 9283.8 | 6857.7 | 8924.4 | 12889.6 | 14694.6 | 12901.8 | 8132.5 | 7994.2 | 11003.3 |
| 57.5° | 9089.9 | 9287.9 | 9228.2 | 6677.4 | 9243.1 | 13989.4 | 16140.2 | 14059.9 | 8383.3 | 8085.0 | 10863.6 |
| 60°   | 7407.0 | 7682.2 | 7819.2 | 5766.1 | 8928.5 | 14116.9 | 16442.6 | 14135.9 | 7865.3 | 6884.9 | 9305.5  |
| 62.5° | 4924.0 | 5150.4 | 5359.3 | 4119.8 | 7729.7 | 12699.8 | 14542.7 | 12703.9 | 6568.9 | 5138.2 | 6446.9  |
| 65°   | 2415.2 | 2583.4 | 2808.5 | 2435.5 | 6038.7 | 10611.4 | 11338.3 | 10265.6 | 4751.7 | 2876.3 | 3288.5  |
| 67.5° | 631.9  | 679.4  | 710.6  | 945.2  | 4325.9 | 7623.9  | 7394.8  | 7508.7  | 3052.6 | 939.8  | 859.8   |
| 70°   | 328.2  | 330.9  | 329.5  | 390.6  | 2923.7 | 4845.3  | 5096.2  | 4715.1  | 2130.4 | 393.3  | 339.0   |
| 72.5° | 234.6  | 236.0  | 231.9  | 263.1  | 1411.7 | 2775.9  | 2876.3  | 2845.1  | 1116.1 | 233.2  | 231.9   |
| 75°   | 153.2  | 154.6  | 151.9  | 154.6  | 212.9  | 316.0   | 291.6   | 306.5   | 185.8  | 147.8  | 147.8   |
| 77.5° | 90.9   | 92.2   | 90.9   | 93.6   | 90.9   | 90.9    | 84.1    | 84.1    | 80.0   | 80.0   | 81.4    |
| 80°   | 61.0   | 61.0   | 59.7   | 62.4   | 57.0   | 57.0    | 54.2    | 52.9    | 48.8   | 47.5   | 47.5    |
| 82.5° | 36.6   | 38.0   | 36.6   | 36.6   | 33.9   | 33.9    | 31.2    | 29.8    | 25.8   | 25.8   | 24.4    |
| 85°   | 19.0   | 19.0   | 17.6   | 17.6   | 14.9   | 13.6    | 10.8    | 10.8    | 8.1    | 6.8    | 6.8     |
| 87.5° | 2.7    | 2.7    | 1.4    | 1.4    | 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    | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3040.4  | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 |
| 2.5°  | 3250.5  | 3223.4 | 3182.7 | 3143.4 | 3106.8 | 3068.8 | 3025.4 | 2980.7 | 2942.7 | 2903.4 | 2883.0 |
| 5°    | 3447.2  | 3391.6 | 3285.8 | 3192.2 | 3108.2 | 3039.0 | 2964.4 | 2900.7 | 2841.0 | 2792.2 | 2767.8 |
| 7.5°  | 3624.8  | 3538.0 | 3378.0 | 3230.2 | 3116.3 | 3021.4 | 2918.3 | 2823.4 | 2743.4 | 2683.7 | 2660.6 |
| 10°   | 3788.9  | 3685.9 | 3475.7 | 3288.5 | 3155.6 | 3049.8 | 2923.7 | 2794.9 | 2689.1 | 2610.5 | 2591.5 |
| 12.5° | 3921.8  | 3803.8 | 3553.0 | 3336.0 | 3178.7 | 3064.8 | 2953.6 | 2842.4 | 2737.9 | 2636.2 | 2620.0 |
| 15°   | 4039.8  | 3900.1 | 3611.3 | 3365.8 | 3170.5 | 3025.4 | 2931.9 | 2918.3 | 2918.3 | 2803.0 | 2770.5 |
| 17.5° | 4141.5  | 3988.3 | 3658.7 | 3379.4 | 3119.0 | 2908.8 | 2851.9 | 2969.8 | 3102.7 | 3020.0 | 2946.8 |
| 20°   | 4258.1  | 4072.3 | 3698.1 | 3379.4 | 3024.1 | 2761.0 | 2755.6 | 2956.3 | 3152.9 | 3154.3 | 3077.0 |
| 22.5° | 4376.1  | 4170.0 | 3744.2 | 3367.2 | 2893.9 | 2590.1 | 2690.5 | 2902.0 | 3077.0 | 3151.6 | 3098.7 |
| 25°   | 4567.3  | 4305.6 | 3817.4 | 3357.7 | 2742.0 | 2473.5 | 2632.2 | 2830.2 | 2978.0 | 3056.6 | 3022.7 |
| 27.5° | 4810.1  | 4484.6 | 3928.6 | 3372.6 | 2591.5 | 2404.3 | 2569.8 | 2736.6 | 2870.8 | 2940.0 | 2915.6 |
| 30°   | 5081.3  | 4690.7 | 4047.9 | 3398.4 | 2483.0 | 2369.1 | 2495.2 | 2629.5 | 2748.8 | 2818.0 | 2807.1 |
| 32.5° | 5427.1  | 4914.5 | 4151.0 | 3363.1 | 2422.0 | 2351.5 | 2416.6 | 2512.8 | 2628.1 | 2671.5 | 2681.0 |
| 35°   | 5840.7  | 5161.3 | 4229.6 | 3224.8 | 2366.4 | 2332.5 | 2331.1 | 2390.8 | 2472.2 | 2541.3 | 2548.1 |
| 37.5° | 6221.7  | 5450.1 | 4316.4 | 2987.5 | 2266.0 | 2285.0 | 2230.8 | 2266.0 | 2346.0 | 2415.2 | 2442.3 |
| 40°   | 6598.7  | 5743.0 | 4437.1 | 2685.1 | 2134.5 | 2179.2 | 2115.5 | 2139.9 | 2203.6 | 2294.5 | 2337.9 |
| 42.5° | 6964.9  | 6007.5 | 4564.6 | 2375.9 | 2002.9 | 2031.4 | 1984.0 | 2008.4 | 2074.8 | 2188.7 | 2237.5 |
| 45°   | 7363.6  | 6365.5 | 4663.6 | 2084.3 | 1889.0 | 1876.8 | 1838.9 | 1874.1 | 1974.5 | 2099.2 | 2157.5 |
| 47.5° | 8117.6  | 6929.6 | 4728.7 | 1890.4 | 1828.0 | 1739.9 | 1696.5 | 1772.4 | 1886.3 | 2012.4 | 2083.0 |
| 50°   | 9038.3  | 7746.0 | 4709.7 | 1767.0 | 1775.1 | 1598.8 | 1583.9 | 1684.3 | 1806.3 | 1937.9 | 2015.1 |
| 52.5° | 9767.9  | 8547.4 | 4494.1 | 1649.0 | 1672.1 | 1509.3 | 1465.9 | 1612.4 | 1729.0 | 1863.3 | 1943.3 |
| 55°   | 10325.3 | 8817.3 | 3832.3 | 1509.3 | 1503.9 | 1444.2 | 1353.4 | 1537.8 | 1651.7 | 1776.5 | 1863.3 |
| 57.5° | 9871.0  | 8216.5 | 2841.0 | 1316.8 | 1284.2 | 1315.4 | 1227.3 | 1411.7 | 1556.8 | 1680.2 | 1757.5 |
| 60°   | 8192.1  | 6551.3 | 1582.6 | 1166.2 | 1074.0 | 1150.0 | 1136.4 | 1278.8 | 1453.7 | 1583.9 | 1650.4 |
| 62.5° | 5561.3  | 4362.5 | 938.4  | 922.1  | 870.6  | 979.1  | 1051.0 | 1144.5 | 1316.8 | 1422.5 | 1484.9 |
| 65°   | 2771.8  | 2119.6 | 623.8  | 690.2  | 697.0  | 805.5  | 941.1  | 1044.2 | 1187.9 | 1296.4 | 1358.8 |
| 67.5° | 804.2   | 659.1  | 474.6  | 527.5  | 600.7  | 687.5  | 796.0  | 918.1  | 1057.8 | 1186.6 | 1259.8 |
| 70°   | 347.2   | 351.2  | 377.0  | 439.4  | 511.2  | 600.7  | 709.2  | 828.6  | 946.6  | 1045.5 | 1101.1 |
| 72.5° | 245.5   | 254.9  | 283.4  | 347.2  | 415.0  | 500.4  | 608.9  | 724.2  | 809.6  | 909.9  | 968.2  |
| 75°   | 157.3   | 164.1  | 187.1  | 236.0  | 286.1  | 368.9  | 471.9  | 577.7  | 665.8  | 737.7  | 793.3  |
| 77.5° | 86.8    | 88.1   | 107.1  | 135.6  | 169.5  | 222.4  | 298.3  | 381.1  | 446.2  | 486.8  | 537.0  |
| 80°   | 50.2    | 50.2   | 59.7   | 77.3   | 97.6   | 130.2  | 172.2  | 212.9  | 252.2  | 278.0  | 302.4  |
| 82.5° | 27.1    | 27.1   | 31.2   | 42.0   | 52.9   | 71.9   | 96.3   | 116.6  | 141.0  | 154.6  | 170.9  |
| 85°   | 8.1     | 8.1    | 10.8   | 14.9   | 19.0   | 27.1   | 38.0   | 48.8   | 59.7   | 69.2   | 78.7   |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    |
| 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-SA5C-830-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 |
| 2.5°  | 2879.0 | 2860.0 | 2849.1 | 2835.6 | 2839.7 | 2827.4 | 2820.7 | 2824.7 | 2800.3 | 2824.7 | 2849.1 |
| 5°    | 2758.3 | 2731.2 | 2709.5 | 2691.8 | 2683.7 | 2667.4 | 2657.9 | 2657.9 | 2643.0 | 2667.4 | 2697.3 |
| 7.5°  | 2652.5 | 2630.8 | 2620.0 | 2609.1 | 2596.9 | 2582.0 | 2565.7 | 2560.3 | 2550.8 | 2576.6 | 2602.3 |
| 10°   | 2582.0 | 2584.7 | 2591.5 | 2606.4 | 2603.7 | 2594.2 | 2569.8 | 2556.2 | 2556.2 | 2586.1 | 2625.4 |
| 12.5° | 2614.5 | 2643.0 | 2659.3 | 2686.4 | 2691.8 | 2683.7 | 2659.3 | 2648.4 | 2675.6 | 2720.3 | 2785.4 |
| 15°   | 2740.7 | 2759.6 | 2773.2 | 2794.9 | 2793.5 | 2786.8 | 2767.8 | 2775.9 | 2865.4 | 2952.2 | 3010.5 |
| 17.5° | 2877.6 | 2855.9 | 2853.2 | 2866.8 | 2870.8 | 2862.7 | 2851.9 | 2888.5 | 3036.3 | 3117.7 | 3147.5 |
| 20°   | 2976.6 | 2902.0 | 2885.8 | 2891.2 | 2902.0 | 2898.0 | 2898.0 | 2957.6 | 3110.9 | 3148.8 | 3110.9 |
| 22.5° | 3006.5 | 2900.7 | 2876.3 | 2877.6 | 2892.5 | 2893.9 | 2900.7 | 2963.1 | 3052.6 | 3053.9 | 2995.6 |
| 25°   | 2959.0 | 2857.3 | 2839.7 | 2842.4 | 2860.0 | 2858.6 | 2861.3 | 2896.6 | 2935.9 | 2919.7 | 2876.3 |
| 27.5° | 2869.5 | 2781.3 | 2775.9 | 2790.8 | 2813.9 | 2801.7 | 2793.5 | 2803.0 | 2822.0 | 2801.7 | 2763.7 |
| 30°   | 2767.8 | 2693.2 | 2695.9 | 2724.4 | 2748.8 | 2728.5 | 2708.1 | 2713.5 | 2714.9 | 2693.2 | 2649.8 |
| 32.5° | 2660.6 | 2605.0 | 2614.5 | 2644.4 | 2672.9 | 2651.2 | 2629.5 | 2626.7 | 2601.0 | 2575.2 | 2533.2 |
| 35°   | 2553.5 | 2531.8 | 2544.0 | 2568.4 | 2592.8 | 2575.2 | 2561.7 | 2553.5 | 2497.9 | 2459.9 | 2424.7 |
| 37.5° | 2455.9 | 2472.2 | 2493.8 | 2508.8 | 2516.9 | 2515.5 | 2507.4 | 2488.4 | 2415.2 | 2370.4 | 2324.3 |
| 40°   | 2369.1 | 2419.3 | 2442.3 | 2449.1 | 2461.3 | 2458.6 | 2457.2 | 2430.1 | 2333.8 | 2286.4 | 2233.5 |
| 42.5° | 2290.4 | 2361.0 | 2400.3 | 2407.1 | 2413.8 | 2415.2 | 2411.1 | 2371.8 | 2262.0 | 2206.4 | 2156.2 |
| 45°   | 2214.5 | 2306.7 | 2356.9 | 2350.1 | 2359.6 | 2359.6 | 2363.7 | 2312.1 | 2191.4 | 2134.5 | 2081.6 |
| 47.5° | 2148.0 | 2256.5 | 2302.6 | 2294.5 | 2299.9 | 2304.0 | 2308.1 | 2248.4 | 2114.1 | 2059.9 | 2005.7 |
| 50°   | 2087.0 | 2202.3 | 2241.6 | 2244.3 | 2244.3 | 2253.8 | 2252.5 | 2194.2 | 2049.1 | 1990.7 | 1936.5 |
| 52.5° | 2021.9 | 2146.7 | 2188.7 | 2206.4 | 2211.8 | 2215.9 | 2196.9 | 2129.1 | 1982.6 | 1912.1 | 1861.9 |
| 55°   | 1946.0 | 2089.7 | 2127.7 | 2150.8 | 2161.6 | 2158.9 | 2133.1 | 2064.0 | 1914.8 | 1844.3 | 1787.3 |
| 57.5° | 1830.7 | 1967.7 | 2021.9 | 2032.8 | 2050.4 | 2039.6 | 2009.7 | 1951.4 | 1806.3 | 1735.8 | 1677.5 |
| 60°   | 1704.6 | 1803.6 | 1847.0 | 1856.5 | 1842.9 | 1847.0 | 1842.9 | 1787.3 | 1661.2 | 1605.6 | 1545.9 |
| 62.5° | 1539.2 | 1627.3 | 1673.4 | 1685.6 | 1662.6 | 1677.5 | 1672.1 | 1602.9 | 1476.8 | 1418.5 | 1365.6 |
| 65°   | 1414.4 | 1510.7 | 1564.9 | 1571.7 | 1564.9 | 1571.7 | 1552.7 | 1468.6 | 1349.3 | 1289.6 | 1235.4 |
| 67.5° | 1316.8 | 1415.8 | 1472.7 | 1491.7 | 1484.9 | 1483.6 | 1453.7 | 1356.1 | 1232.7 | 1167.6 | 1098.4 |
| 70°   | 1148.6 | 1235.4 | 1308.6 | 1354.7 | 1354.7 | 1329.0 | 1272.0 | 1181.2 | 1082.2 | 1026.6 | 972.3  |
| 72.5° | 1017.1 | 1126.9 | 1198.8 | 1246.2 | 1255.7 | 1240.8 | 1160.8 | 1064.5 | 950.6  | 895.0  | 838.1  |
| 75°   | 838.1  | 945.2  | 1022.5 | 1084.9 | 1097.1 | 1080.8 | 988.6  | 893.7  | 787.9  | 733.6  | 676.7  |
| 77.5° | 560.1  | 623.8  | 686.2  | 743.1  | 730.9  | 741.8  | 679.4  | 607.5  | 542.4  | 501.8  | 476.0  |
| 80°   | 316.0  | 358.0  | 377.0  | 408.2  | 408.2  | 408.2  | 367.5  | 333.6  | 297.0  | 273.9  | 248.2  |
| 82.5° | 179.0  | 206.1  | 214.3  | 240.0  | 246.8  | 248.2  | 221.0  | 199.3  | 176.3  | 164.1  | 146.5  |
| 85°   | 82.7   | 97.6   | 99.0   | 113.9  | 119.3  | 130.2  | 118.0  | 103.1  | 89.5   | 84.1   | 73.2   |
| 87.5° | 2.7    | 8.1    | 10.8   | 20.3   | 27.1   | 31.2   | 33.9   | 33.9   | 28.5   | 25.8   | 21.7   |
| 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: P639969

CATALOG NUMBER: GWS-SA5C-830-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 | 3040.4 |
| 2.5°  | 2879.0 | 2911.5 | 2949.5 | 2976.6 | 3025.4 | 3066.1 | 3108.2 | 3154.3 | 3188.2 | 3180.0 |
| 5°    | 2733.9 | 2788.1 | 2857.3 | 2921.0 | 3011.9 | 3104.1 | 3205.8 | 3310.2 | 3371.2 | 3368.5 |
| 7.5°  | 2652.5 | 2729.8 | 2813.9 | 2899.3 | 3006.5 | 3139.3 | 3295.3 | 3458.0 | 3540.8 | 3544.8 |
| 10°   | 2695.9 | 2778.6 | 2835.6 | 2907.5 | 3020.0 | 3186.8 | 3374.0 | 3569.2 | 3664.2 | 3683.1 |
| 12.5° | 2832.9 | 2826.1 | 2822.0 | 2873.6 | 3009.2 | 3220.7 | 3449.9 | 3683.1 | 3790.3 | 3813.3 |
| 15°   | 2963.1 | 2823.4 | 2739.3 | 2774.6 | 2960.3 | 3242.4 | 3524.5 | 3807.9 | 3928.6 | 3953.0 |
| 17.5° | 2987.5 | 2775.9 | 2620.0 | 2644.4 | 2883.0 | 3249.2 | 3596.4 | 3929.9 | 4060.1 | 4083.2 |
| 20°   | 2919.7 | 2714.9 | 2533.2 | 2499.3 | 2785.4 | 3231.6 | 3641.1 | 4031.7 | 4174.0 | 4198.5 |
| 22.5° | 2834.2 | 2660.6 | 2468.1 | 2379.9 | 2666.1 | 3213.9 | 3691.3 | 4138.8 | 4302.9 | 4324.6 |
| 25°   | 2744.7 | 2591.5 | 2407.1 | 2272.8 | 2530.5 | 3203.1 | 3775.4 | 4279.8 | 4477.8 | 4503.6 |
| 27.5° | 2649.8 | 2507.4 | 2354.2 | 2221.3 | 2405.7 | 3216.6 | 3894.7 | 4507.6 | 4732.8 | 4769.4 |
| 30°   | 2548.1 | 2423.3 | 2320.3 | 2203.6 | 2320.3 | 3228.9 | 4026.2 | 4740.9 | 5005.3 | 5056.9 |
| 32.5° | 2442.3 | 2346.0 | 2285.0 | 2211.8 | 2267.4 | 3200.4 | 4141.5 | 5002.6 | 5330.8 | 5375.5 |
| 35°   | 2336.5 | 2267.4 | 2240.3 | 2226.7 | 2196.9 | 3096.0 | 4235.1 | 5267.1 | 5702.4 | 5741.7 |
| 37.5° | 2237.5 | 2186.0 | 2177.9 | 2192.8 | 2088.4 | 2925.1 | 4343.6 | 5603.4 | 6067.1 | 6126.8 |
| 40°   | 2145.3 | 2097.9 | 2096.5 | 2093.8 | 1969.0 | 2691.8 | 4490.0 | 5945.1 | 6426.5 | 6453.6 |
| 42.5° | 2059.9 | 2000.2 | 2011.1 | 1978.5 | 1871.4 | 2439.6 | 4628.3 | 6236.7 | 6761.5 | 6780.5 |
| 45°   | 1984.0 | 1905.3 | 1917.5 | 1876.8 | 1825.3 | 2175.2 | 4750.4 | 6581.1 | 7185.9 | 7198.1 |
| 47.5° | 1910.7 | 1826.7 | 1792.8 | 1790.0 | 1817.2 | 1931.1 | 4869.7 | 7244.2 | 7850.4 | 7872.1 |
| 50°   | 1842.9 | 1752.1 | 1655.8 | 1715.5 | 1767.0 | 1748.0 | 5018.9 | 7954.8 | 8536.6 | 8531.2 |
| 52.5° | 1777.8 | 1658.5 | 1521.5 | 1636.8 | 1636.8 | 1612.4 | 4976.9 | 8386.1 | 9103.4 | 9197.0 |
| 55°   | 1703.2 | 1508.0 | 1381.9 | 1505.3 | 1445.6 | 1490.3 | 4232.4 | 8527.1 | 9460.1 | 9593.0 |
| 57.5° | 1555.4 | 1322.2 | 1212.3 | 1278.8 | 1189.3 | 1381.9 | 3040.4 | 7827.4 | 8853.9 | 9089.9 |
| 60°   | 1413.0 | 1185.2 | 1113.3 | 1101.1 | 984.5  | 1126.9 | 1970.4 | 6128.2 | 7287.6 | 7407.0 |
| 62.5° | 1246.2 | 1067.2 | 1006.2 | 912.6  | 792.0  | 820.4  | 1193.4 | 4033.0 | 4896.8 | 4924.0 |
| 65°   | 1120.1 | 966.9  | 850.3  | 739.1  | 648.2  | 595.3  | 705.2  | 1944.6 | 2447.7 | 2415.2 |
| 67.5° | 961.5  | 828.6  | 717.4  | 637.4  | 562.8  | 496.3  | 469.2  | 577.7  | 653.6  | 631.9  |
| 70°   | 855.7  | 728.2  | 621.1  | 545.1  | 476.0  | 409.5  | 362.1  | 340.4  | 333.6  | 328.2  |
| 72.5° | 737.7  | 626.5  | 515.3  | 442.1  | 377.0  | 316.0  | 272.6  | 246.8  | 240.0  | 234.6  |
| 75°   | 588.5  | 484.1  | 382.4  | 313.3  | 256.3  | 212.9  | 184.4  | 162.7  | 158.7  | 153.2  |
| 77.5° | 389.2  | 310.5  | 227.8  | 185.8  | 151.9  | 128.8  | 109.8  | 96.3   | 93.6   | 90.9   |
| 80°   | 214.3  | 179.0  | 139.7  | 112.6  | 90.9   | 78.7   | 71.9   | 63.7   | 62.4   | 61.0   |
| 82.5° | 127.5  | 107.1  | 80.0   | 63.7   | 52.9   | 47.5   | 43.4   | 39.3   | 38.0   | 36.6   |
| 85°   | 63.7   | 50.2   | 35.3   | 29.8   | 27.1   | 24.4   | 24.4   | 20.3   | 19.0   | 19.0   |
| 87.5° | 16.3   | 13.6   | 8.1    | 6.8    | 6.8    | 6.8    | 5.4    | 4.1    | 4.1    | 2.7    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)