

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: P640130

Luminaire Tested: GWS-SA5D-730-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

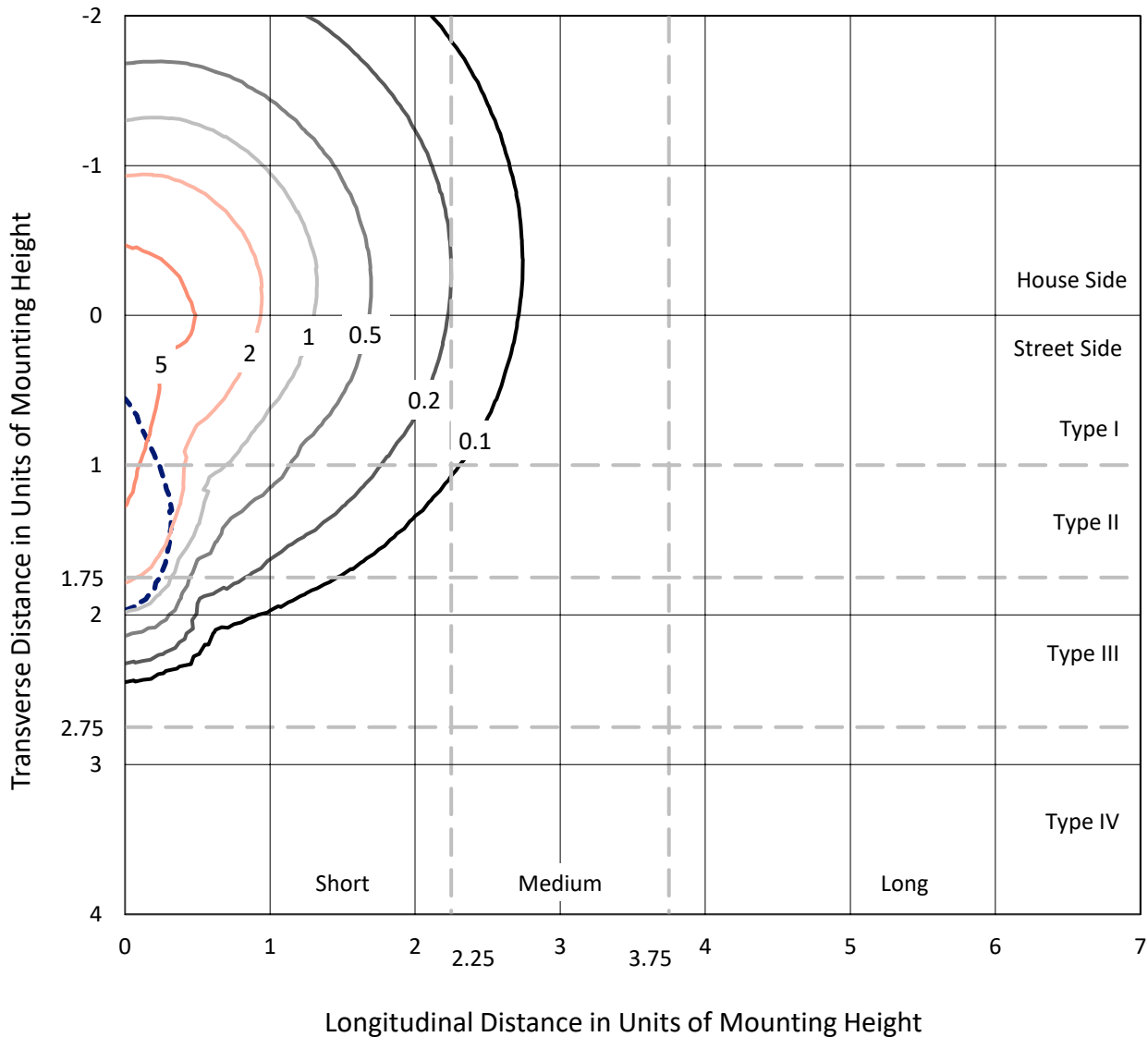
Lumens per Lamp: N/A  
Luminaire Lumens: 21293.1 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

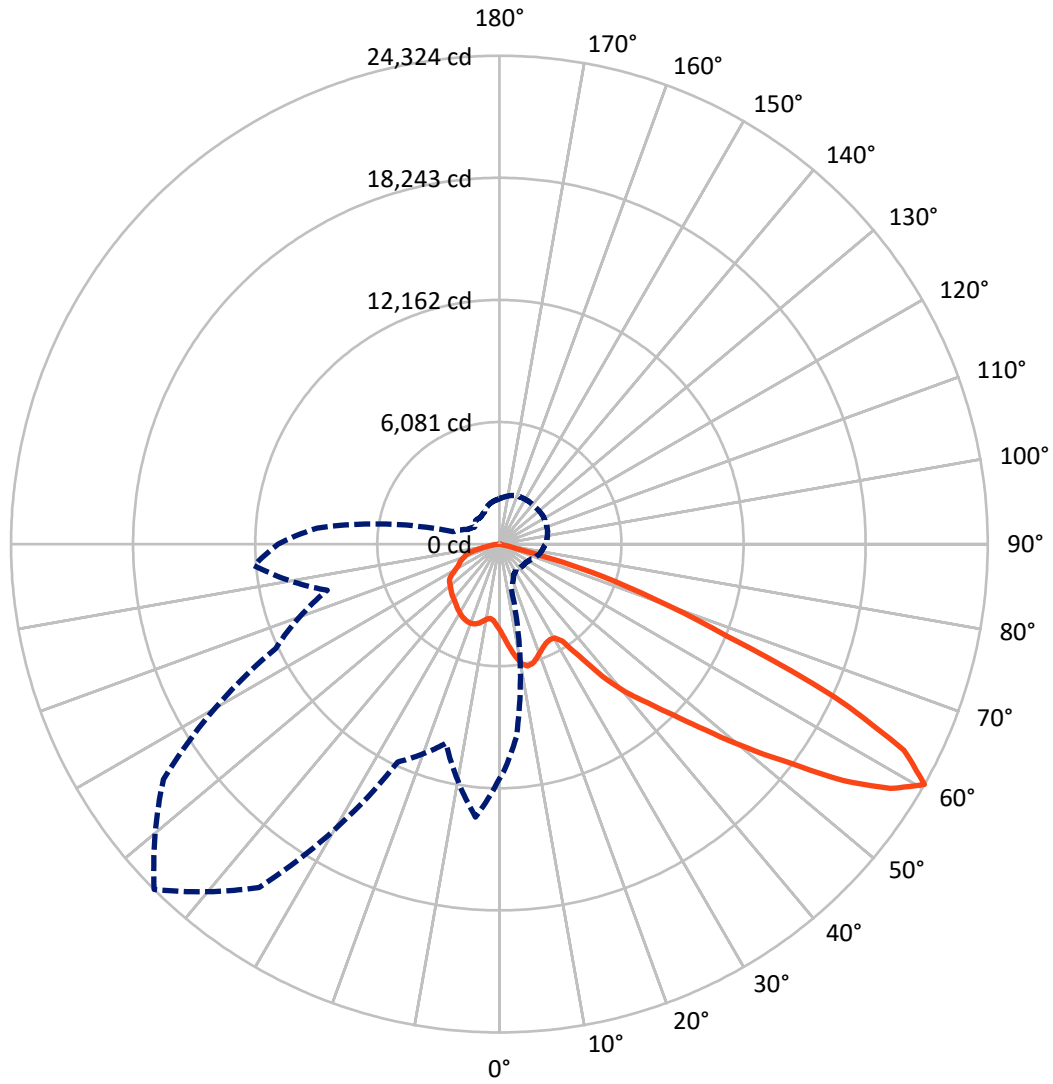
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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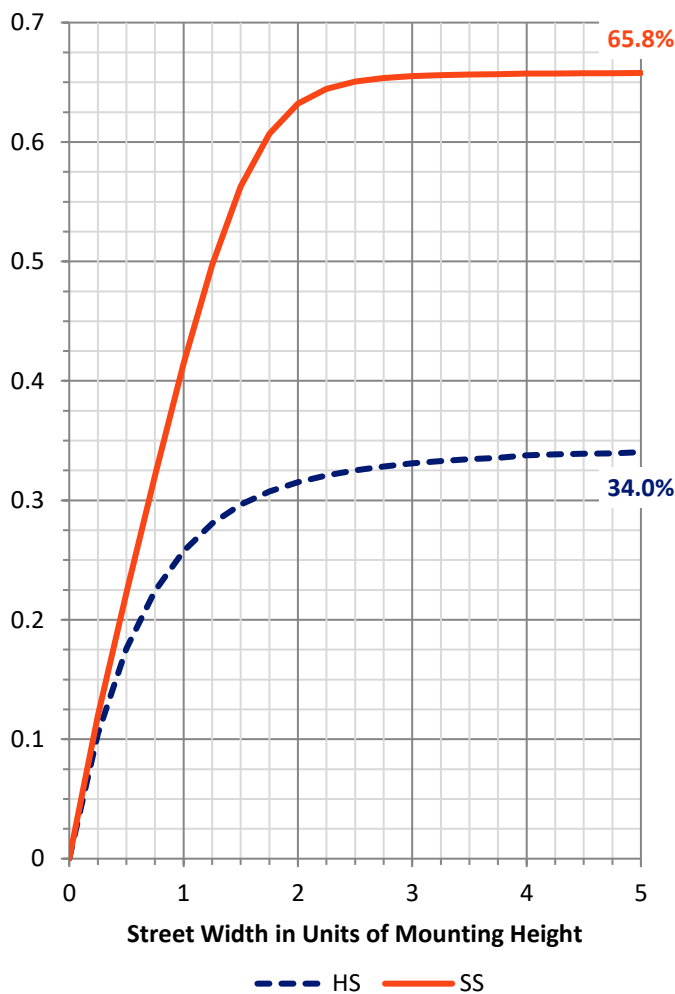
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7284.2   | 0.0    | 7284.2  |
|                    | % Fixture | 34.2     | 0.0    | 34.2    |
| <b>Street Side</b> | Lumens    | 14008.9  | 0.0    | 14008.9 |
|                    | % Fixture | 65.8     | 0.0    | 65.8    |
| <b>Total</b>       | Lumens    | 21293.1  | 0.0    | 21293.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 419.6   | 2.0       |
| 10°-20°   | 1345.8  | 6.3       |
| 20°-30°   | 2191.8  | 10.3      |
| 30°-40°   | 3079.0  | 14.5      |
| 40°-50°   | 4213.2  | 19.8      |
| 50°-60°   | 5405.4  | 25.4      |
| 60°-70°   | 3639.8  | 17.1      |
| 70°-80°   | 909.9   | 4.3       |
| 80°-90°   | 88.7    | 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°    | 21293.1 | 100.0     |
| 0°-180°   | 21293.1 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P640130

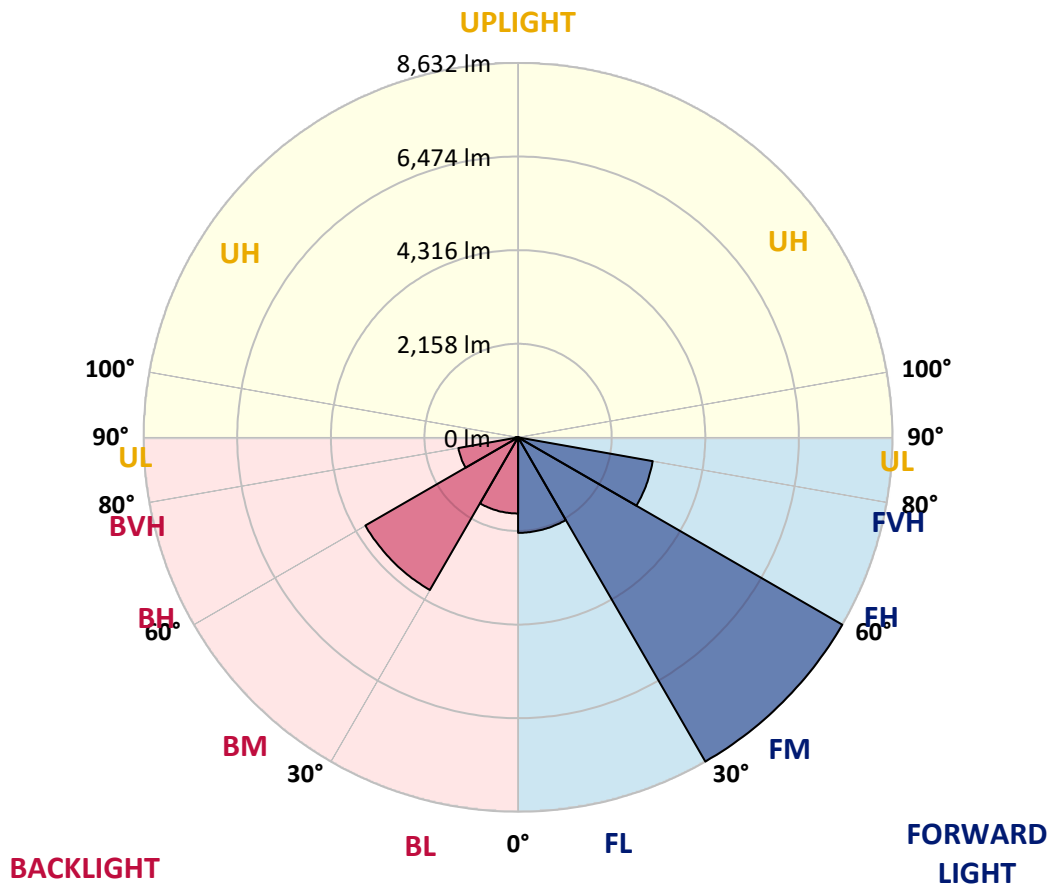
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 2201.2 | 10.3      |                         |      |         |
| FM (30°-60°)   | 8632.4 | 40.5      |                         |      |         |
| FH (60°-80°)   | 3152.3 | 14.8      |                         |      | G2/5000 |
| FVH (80°-90°)  | 23.1   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 1755.9 | 8.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 4065.2 | 19.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 1397.4 | 6.6       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 65.7   | 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-G3**

Type III Short





REPORT NUMBER: P640130

CATALOG NUMBER: GWS-SA5D-730-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4294.6  | 4294.6  | 4294.6  | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 |
| 2.5°  | 4543.6  | 4533.8  | 4524.0  | 4447.6 | 4427.9 | 4373.0 | 4333.8 | 4284.8 | 4214.2 | 4175.0 | 4141.6 |
| 5°    | 4828.0  | 4812.3  | 4759.3  | 4602.5 | 4500.5 | 4388.7 | 4296.6 | 4194.6 | 4086.7 | 4016.1 | 3961.2 |
| 7.5°  | 5096.6  | 5092.7  | 5002.5  | 4743.7 | 4578.9 | 4418.1 | 4292.6 | 4143.6 | 3988.7 | 3882.8 | 3812.2 |
| 10°   | 5345.7  | 5316.3  | 5208.4  | 4871.1 | 4655.4 | 4471.1 | 4335.8 | 4171.0 | 3990.6 | 3847.5 | 3753.4 |
| 12.5° | 5565.3  | 5528.1  | 5379.0  | 4988.8 | 4722.1 | 4494.6 | 4347.5 | 4212.2 | 4092.6 | 3973.0 | 3865.1 |
| 15°   | 5745.7  | 5700.6  | 5549.6  | 5098.6 | 4780.9 | 4480.9 | 4275.0 | 4169.1 | 4210.3 | 4263.2 | 4143.6 |
| 17.5° | 5914.4  | 5867.3  | 5683.0  | 5179.0 | 4798.6 | 4396.6 | 4096.5 | 4051.4 | 4259.3 | 4500.5 | 4445.6 |
| 20°   | 6055.6  | 6002.6  | 5788.9  | 5218.2 | 4767.2 | 4235.8 | 3865.1 | 3943.6 | 4218.1 | 4506.4 | 4594.6 |
| 22.5° | 6208.5  | 6165.4  | 5908.5  | 5275.1 | 4728.0 | 4014.2 | 3671.0 | 3863.2 | 4147.5 | 4400.5 | 4533.8 |
| 25°   | 6453.7  | 6400.7  | 6094.8  | 5375.1 | 4708.4 | 3806.3 | 3531.8 | 3784.7 | 4049.5 | 4278.9 | 4382.8 |
| 27.5° | 6808.6  | 6710.5  | 6349.7  | 5549.6 | 4729.9 | 3610.2 | 3443.5 | 3688.6 | 3935.7 | 4131.8 | 4216.2 |
| 30°   | 7194.9  | 7077.3  | 6632.1  | 5730.0 | 4761.3 | 3490.6 | 3396.5 | 3578.8 | 3761.2 | 3957.3 | 4049.5 |
| 32.5° | 7651.8  | 7547.9  | 6934.1  | 5865.4 | 4694.6 | 3435.7 | 3361.2 | 3459.2 | 3604.3 | 3761.2 | 3837.7 |
| 35°   | 8197.0  | 8010.7  | 7263.5  | 5975.2 | 4478.9 | 3355.3 | 3329.8 | 3327.8 | 3404.3 | 3557.3 | 3643.5 |
| 37.5° | 8783.3  | 8583.3  | 7669.5  | 6092.8 | 4143.6 | 3227.8 | 3255.3 | 3172.9 | 3243.5 | 3365.1 | 3463.1 |
| 40°   | 9263.8  | 9053.9  | 8079.3  | 6253.6 | 3723.9 | 3027.8 | 3090.5 | 3002.3 | 3045.4 | 3170.9 | 3280.8 |
| 42.5° | 9734.4  | 9510.9  | 8461.7  | 6436.0 | 3318.0 | 2831.7 | 2863.1 | 2829.7 | 2843.5 | 2974.8 | 3127.8 |
| 45°   | 10352.1 | 10101.1 | 8932.4  | 6565.4 | 2953.3 | 2676.8 | 2647.4 | 2590.5 | 2663.0 | 2833.6 | 2996.4 |
| 47.5° | 11383.6 | 11083.6 | 9703.0  | 6649.8 | 2688.5 | 2588.5 | 2453.2 | 2419.9 | 2510.1 | 2700.3 | 2868.9 |
| 50°   | 12589.6 | 12330.8 | 10934.5 | 6645.8 | 2490.5 | 2514.0 | 2265.0 | 2235.5 | 2384.6 | 2576.8 | 2755.2 |
| 52.5° | 13578.0 | 13315.2 | 11987.6 | 6449.7 | 2327.7 | 2355.2 | 2155.1 | 2072.8 | 2276.7 | 2455.2 | 2633.6 |
| 55°   | 14376.1 | 14080.0 | 12472.0 | 5630.0 | 2121.8 | 2102.2 | 2035.5 | 1884.5 | 2141.4 | 2333.6 | 2500.3 |
| 57.5° | 13946.6 | 13593.7 | 11885.6 | 4280.9 | 1910.0 | 1786.5 | 1829.6 | 1717.8 | 1957.1 | 2198.3 | 2359.1 |
| 60°   | 11693.4 | 11375.8 | 9656.0  | 2278.7 | 1680.6 | 1492.3 | 1582.5 | 1600.2 | 1755.1 | 2035.5 | 2200.2 |
| 62.5° | 8032.3  | 7800.9  | 6543.9  | 1382.5 | 1325.6 | 1198.2 | 1339.4 | 1466.8 | 1582.5 | 1819.8 | 1963.0 |
| 65°   | 3929.8  | 3861.2  | 3272.9  | 886.4  | 927.6  | 968.7  | 1109.9 | 1264.8 | 1435.5 | 1643.3 | 1794.3 |
| 67.5° | 1082.5  | 1090.3  | 992.3   | 692.2  | 731.5  | 845.2  | 957.0  | 1080.5 | 1251.1 | 1443.3 | 1596.3 |
| 70°   | 476.5   | 484.4   | 500.1   | 533.4  | 607.9  | 711.8  | 827.5  | 955.0  | 1111.9 | 1272.7 | 1419.8 |
| 72.5° | 331.4   | 339.3   | 362.8   | 405.9  | 472.6  | 570.7  | 680.5  | 802.0  | 964.8  | 1100.1 | 1221.7 |
| 75°   | 203.9   | 209.8   | 231.4   | 268.7  | 313.8  | 388.3  | 496.1  | 607.9  | 751.1  | 874.6  | 982.5  |
| 77.5° | 107.9   | 103.9   | 117.7   | 143.2  | 182.4  | 221.6  | 294.2  | 364.7  | 466.7  | 566.7  | 656.9  |
| 80°   | 58.8    | 56.9    | 64.7    | 78.4   | 90.2   | 121.6  | 170.6  | 217.7  | 276.5  | 333.4  | 382.4  |
| 82.5° | 25.5    | 23.5    | 25.5    | 33.3   | 41.2   | 58.8   | 86.3   | 119.6  | 153.0  | 192.2  | 223.6  |
| 85°   | 0.0     | 0.0     | 0.0     | 2.0    | 9.8    | 15.7   | 29.4   | 43.1   | 62.8   | 86.3   | 105.9  |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 7.8    | 17.6   |
| 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: P640130

CATALOG NUMBER: GWS-SA5D-730-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 |
| 2.5°  | 4122.0 | 4073.0 | 4069.1 | 4029.9 | 4033.8 | 4035.7 | 3996.5 | 3980.8 | 3994.6 | 4010.2 | 4002.4 |
| 5°    | 3941.6 | 3890.6 | 3869.1 | 3831.8 | 3827.9 | 3810.2 | 3794.5 | 3774.9 | 3788.7 | 3802.4 | 3810.2 |
| 7.5°  | 3784.7 | 3751.4 | 3737.7 | 3727.9 | 3731.8 | 3723.9 | 3692.6 | 3674.9 | 3673.0 | 3678.8 | 3686.7 |
| 10°   | 3733.7 | 3706.3 | 3723.9 | 3751.4 | 3771.0 | 3784.7 | 3751.4 | 3722.0 | 3694.5 | 3682.8 | 3682.8 |
| 12.5° | 3843.6 | 3808.3 | 3843.6 | 3873.0 | 3912.2 | 3922.0 | 3884.7 | 3853.4 | 3843.6 | 3855.3 | 3878.9 |
| 15°   | 4086.7 | 4004.4 | 4002.4 | 4020.1 | 4051.4 | 4067.1 | 4031.8 | 4016.1 | 4016.1 | 4090.6 | 4149.5 |
| 17.5° | 4329.9 | 4194.6 | 4137.7 | 4127.9 | 4147.5 | 4153.4 | 4124.0 | 4110.3 | 4145.6 | 4290.7 | 4400.5 |
| 20°   | 4500.5 | 4335.8 | 4212.2 | 4188.7 | 4194.6 | 4196.5 | 4173.0 | 4163.2 | 4214.2 | 4390.7 | 4482.8 |
| 22.5° | 4482.8 | 4361.3 | 4210.3 | 4180.9 | 4190.7 | 4186.7 | 4165.2 | 4161.2 | 4202.4 | 4355.4 | 4398.5 |
| 25°   | 4361.3 | 4267.1 | 4139.7 | 4120.1 | 4135.8 | 4133.8 | 4112.2 | 4102.4 | 4120.1 | 4222.0 | 4226.0 |
| 27.5° | 4222.0 | 4139.7 | 4029.9 | 4024.0 | 4049.5 | 4063.2 | 4025.9 | 3996.5 | 3990.6 | 4059.3 | 4043.6 |
| 30°   | 4055.3 | 3994.6 | 3906.3 | 3910.2 | 3957.3 | 3965.1 | 3920.0 | 3876.9 | 3865.1 | 3902.4 | 3880.8 |
| 32.5° | 3857.3 | 3837.7 | 3790.6 | 3800.4 | 3845.5 | 3861.2 | 3814.1 | 3769.0 | 3755.3 | 3767.1 | 3722.0 |
| 35°   | 3688.6 | 3680.8 | 3684.7 | 3702.4 | 3741.6 | 3753.4 | 3714.1 | 3678.8 | 3659.2 | 3618.0 | 3559.2 |
| 37.5° | 3514.1 | 3535.7 | 3592.6 | 3625.9 | 3647.5 | 3643.5 | 3622.0 | 3596.5 | 3565.1 | 3488.6 | 3416.1 |
| 40°   | 3351.4 | 3406.3 | 3508.2 | 3545.5 | 3553.3 | 3555.3 | 3539.6 | 3518.0 | 3478.8 | 3376.8 | 3294.5 |
| 42.5° | 3225.8 | 3286.6 | 3421.9 | 3478.8 | 3482.7 | 3486.7 | 3471.0 | 3453.3 | 3398.4 | 3263.1 | 3182.7 |
| 45°   | 3094.5 | 3174.9 | 3333.7 | 3402.3 | 3398.4 | 3396.5 | 3382.7 | 3374.9 | 3310.2 | 3153.3 | 3065.0 |
| 47.5° | 2982.7 | 3076.8 | 3247.4 | 3306.2 | 3304.3 | 3302.3 | 3292.5 | 3292.5 | 3227.8 | 3057.2 | 2957.2 |
| 50°   | 2872.9 | 2980.7 | 3159.2 | 3208.2 | 3212.1 | 3208.2 | 3204.3 | 3210.2 | 3133.7 | 2951.3 | 2853.3 |
| 52.5° | 2753.2 | 2874.8 | 3061.1 | 3106.2 | 3129.8 | 3139.6 | 3139.6 | 3125.8 | 3035.6 | 2845.4 | 2737.6 |
| 55°   | 2621.9 | 2737.6 | 2953.3 | 3014.1 | 3033.7 | 3051.3 | 3051.3 | 3023.9 | 2939.5 | 2747.4 | 2631.7 |
| 57.5° | 2459.1 | 2561.1 | 2731.7 | 2792.5 | 2839.5 | 2851.3 | 2851.3 | 2806.2 | 2737.6 | 2553.2 | 2459.1 |
| 60°   | 2282.6 | 2370.9 | 2486.5 | 2551.3 | 2586.6 | 2563.0 | 2580.7 | 2568.9 | 2514.0 | 2343.4 | 2265.0 |
| 62.5° | 2047.3 | 2137.5 | 2265.0 | 2331.6 | 2347.3 | 2323.8 | 2347.3 | 2345.4 | 2270.8 | 2117.9 | 2023.8 |
| 65°   | 1878.6 | 1966.9 | 2092.4 | 2178.7 | 2204.2 | 2198.3 | 2214.0 | 2190.4 | 2098.3 | 1953.2 | 1863.0 |
| 67.5° | 1678.6 | 1772.7 | 1917.9 | 2013.9 | 2066.9 | 2072.8 | 2094.3 | 2045.3 | 1951.2 | 1792.4 | 1678.6 |
| 70°   | 1488.4 | 1568.8 | 1680.6 | 1770.8 | 1845.3 | 1882.6 | 1886.5 | 1815.9 | 1698.2 | 1566.8 | 1484.5 |
| 72.5° | 1288.4 | 1370.7 | 1506.0 | 1604.1 | 1698.2 | 1741.4 | 1741.4 | 1655.1 | 1527.6 | 1382.5 | 1294.3 |
| 75°   | 1045.2 | 1121.7 | 1245.2 | 1351.1 | 1459.0 | 1513.9 | 1511.9 | 1437.4 | 1296.2 | 1159.0 | 1066.8 |
| 77.5° | 707.9  | 764.8  | 843.2  | 923.6  | 939.3  | 982.5  | 1004.0 | 909.9  | 831.5  | 756.9  | 674.6  |
| 80°   | 411.8  | 447.1  | 490.3  | 535.4  | 545.2  | 558.9  | 523.6  | 488.3  | 447.1  | 398.1  | 360.8  |
| 82.5° | 241.2  | 264.7  | 286.3  | 321.6  | 327.5  | 331.4  | 300.0  | 284.3  | 251.0  | 221.6  | 198.1  |
| 85°   | 117.7  | 125.5  | 145.1  | 162.8  | 154.9  | 151.0  | 137.3  | 121.6  | 107.9  | 96.1   | 84.3   |
| 87.5° | 23.5   | 23.5   | 35.3   | 33.3   | 27.5   | 23.5   | 13.7   | 17.6   | 3.9    | 3.9    | 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-SA5D-730-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6 | 4294.6  | 4294.6  | 4294.6  |
| 2.5°  | 4027.9 | 4061.2 | 4102.4 | 4157.3 | 4220.1 | 4286.7 | 4351.5 | 4400.5 | 4449.5  | 4522.1  | 4510.3  |
| 5°    | 3822.0 | 3878.9 | 3943.6 | 4027.9 | 4129.9 | 4245.6 | 4375.0 | 4504.4 | 4643.7  | 4761.3  | 4812.3  |
| 7.5°  | 3702.4 | 3765.1 | 3841.6 | 3951.4 | 4082.8 | 4224.0 | 4406.4 | 4616.2 | 4841.7  | 4996.6  | 5092.7  |
| 10°   | 3702.4 | 3782.8 | 3882.8 | 3988.7 | 4104.4 | 4249.5 | 4475.0 | 4737.8 | 5028.0  | 5232.0  | 5343.7  |
| 12.5° | 3916.1 | 3996.5 | 4018.1 | 4014.2 | 4078.9 | 4239.7 | 4529.9 | 4865.2 | 5212.3  | 5428.1  | 5565.3  |
| 15°   | 4249.5 | 4276.9 | 4114.2 | 3965.1 | 3974.9 | 4169.1 | 4555.4 | 4967.2 | 5371.2  | 5630.0  | 5779.1  |
| 17.5° | 4473.0 | 4400.5 | 4110.3 | 3849.4 | 3794.5 | 4049.5 | 4555.4 | 5065.3 | 5539.8  | 5832.0  | 5971.2  |
| 20°   | 4490.7 | 4310.3 | 4010.2 | 3737.7 | 3596.5 | 3890.6 | 4524.0 | 5139.8 | 5702.6  | 6026.2  | 6175.2  |
| 22.5° | 4335.8 | 4157.3 | 3904.4 | 3641.6 | 3433.7 | 3698.4 | 4473.0 | 5196.7 | 5841.8  | 6208.5  | 6392.9  |
| 25°   | 4159.3 | 4010.2 | 3796.5 | 3543.5 | 3321.9 | 3504.3 | 4426.0 | 5292.7 | 6036.0  | 6455.6  | 6641.9  |
| 27.5° | 3986.7 | 3861.2 | 3667.1 | 3461.2 | 3259.2 | 3335.7 | 4396.6 | 5433.9 | 6267.4  | 6806.6  | 6967.4  |
| 30°   | 3818.1 | 3704.3 | 3527.8 | 3382.7 | 3225.8 | 3225.8 | 4371.1 | 5596.7 | 6573.3  | 7200.8  | 7361.6  |
| 32.5° | 3647.5 | 3539.6 | 3396.5 | 3306.2 | 3206.2 | 3182.7 | 4300.5 | 5749.7 | 6889.0  | 7632.2  | 7796.9  |
| 35°   | 3488.6 | 3380.8 | 3270.9 | 3233.7 | 3196.4 | 3149.4 | 4125.9 | 5869.3 | 7196.9  | 8136.2  | 8277.4  |
| 37.5° | 3339.6 | 3235.7 | 3153.3 | 3143.5 | 3147.4 | 3059.2 | 3851.4 | 5969.3 | 7581.2  | 8651.9  | 8726.5  |
| 40°   | 3210.2 | 3094.5 | 3029.7 | 3027.8 | 3047.4 | 2914.0 | 3504.3 | 6112.4 | 8020.5  | 9089.2  | 9057.9  |
| 42.5° | 3094.5 | 2972.9 | 2894.4 | 2912.1 | 2900.3 | 2768.9 | 3165.1 | 6243.8 | 8402.9  | 9499.1  | 9436.3  |
| 45°   | 2980.7 | 2863.1 | 2753.2 | 2778.7 | 2765.0 | 2678.7 | 2876.8 | 6339.9 | 8826.5  | 9991.3  | 9999.1  |
| 47.5° | 2870.9 | 2755.2 | 2645.4 | 2614.0 | 2612.1 | 2651.3 | 2655.2 | 6371.3 | 9516.7  | 10783.5 | 10605.1 |
| 50°   | 2768.9 | 2653.2 | 2539.5 | 2433.6 | 2474.8 | 2596.4 | 2490.5 | 6347.8 | 10550.2 | 11658.2 | 11160.1 |
| 52.5° | 2663.0 | 2553.2 | 2427.7 | 2237.5 | 2345.4 | 2465.0 | 2343.4 | 6263.4 | 11181.6 | 12430.8 | 12132.7 |
| 55°   | 2541.5 | 2437.5 | 2266.9 | 2035.5 | 2166.9 | 2192.4 | 2192.4 | 5447.7 | 11450.3 | 13195.6 | 13379.9 |
| 57.5° | 2378.7 | 2241.4 | 1970.8 | 1784.5 | 1902.2 | 1804.1 | 2031.6 | 3812.2 | 11007.1 | 12954.4 | 13670.1 |
| 60°   | 2194.4 | 2047.3 | 1761.0 | 1627.6 | 1662.9 | 1490.4 | 1731.6 | 2390.5 | 9122.6  | 11022.8 | 12262.1 |
| 62.5° | 1951.2 | 1815.9 | 1578.6 | 1474.7 | 1402.1 | 1215.8 | 1394.3 | 1511.9 | 6253.6  | 8185.2  | 9030.4  |
| 65°   | 1788.4 | 1639.4 | 1427.6 | 1290.3 | 1141.3 | 978.5  | 925.6  | 992.3  | 3363.1  | 4580.9  | 5151.5  |
| 67.5° | 1596.3 | 1449.2 | 1249.2 | 1076.6 | 957.0  | 839.3  | 747.1  | 723.6  | 1153.1  | 1525.7  | 1651.2  |
| 70°   | 1413.9 | 1272.7 | 1106.0 | 945.2  | 825.6  | 709.9  | 619.7  | 555.0  | 533.4   | 529.5   | 521.6   |
| 72.5° | 1227.6 | 1096.2 | 957.0  | 807.9  | 676.5  | 570.7  | 490.3  | 415.7  | 384.4   | 374.6   | 364.7   |
| 75°   | 1006.0 | 902.1  | 762.8  | 602.0  | 496.1  | 398.1  | 335.3  | 286.3  | 258.9   | 249.0   | 237.3   |
| 77.5° | 647.1  | 600.1  | 478.5  | 388.3  | 300.0  | 237.3  | 203.9  | 172.6  | 154.9   | 151.0   | 141.2   |
| 80°   | 345.1  | 321.6  | 264.7  | 223.6  | 178.5  | 145.1  | 127.5  | 109.8  | 100.0   | 96.1    | 92.2    |
| 82.5° | 192.2  | 174.5  | 147.1  | 129.4  | 103.9  | 88.2   | 78.4   | 70.6   | 64.7    | 62.8    | 60.8    |
| 85°   | 86.3   | 74.5   | 58.8   | 54.9   | 49.0   | 45.1   | 43.1   | 39.2   | 37.3    | 35.3    | 33.3    |
| 87.5° | 3.9    | 7.8    | 9.8    | 7.8    | 7.8    | 11.8   | 13.7   | 13.7   | 11.8    | 11.8    | 9.8     |
| 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: P640130

CATALOG NUMBER: GWS-SA5D-730-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

|       | 285°   | 295°    | 305°    | 315°    | 325°    | 335°    | 345°    | 355°    | 359°    | 360°    |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4294.6 | 4294.6  | 4294.6  | 4294.6  | 4294.6  | 4294.6  | 4294.6  | 4294.6  | 4294.6  | 4294.6  |
| 2.5°  | 4582.9 | 4641.7  | 4647.6  | 4667.2  | 4641.7  | 4635.8  | 4594.6  | 4571.1  | 4549.5  | 4543.6  |
| 5°    | 4939.8 | 5057.4  | 5104.5  | 5137.8  | 5106.4  | 5090.8  | 5000.6  | 4906.4  | 4853.5  | 4828.0  |
| 7.5°  | 5306.5 | 5483.0  | 5575.1  | 5616.3  | 5620.2  | 5549.6  | 5394.7  | 5218.2  | 5130.0  | 5096.6  |
| 10°   | 5634.0 | 5851.6  | 5973.2  | 6051.6  | 6024.2  | 5937.9  | 5726.1  | 5486.9  | 5375.1  | 5345.7  |
| 12.5° | 5877.1 | 6085.0  | 6179.1  | 6230.1  | 6228.1  | 6181.1  | 5981.1  | 5722.2  | 5594.7  | 5565.3  |
| 15°   | 6034.0 | 6157.5  | 6163.4  | 6175.2  | 6208.5  | 6271.3  | 6167.3  | 5928.1  | 5786.9  | 5745.7  |
| 17.5° | 6157.5 | 6108.5  | 6016.4  | 5985.0  | 6059.5  | 6234.0  | 6296.8  | 6102.6  | 5949.7  | 5914.4  |
| 20°   | 6236.0 | 5988.9  | 5826.1  | 5765.3  | 5851.6  | 6136.0  | 6375.2  | 6259.5  | 6100.7  | 6055.6  |
| 22.5° | 6296.8 | 5877.1  | 5614.3  | 5573.2  | 5663.4  | 6030.1  | 6455.6  | 6445.8  | 6271.3  | 6208.5  |
| 25°   | 6392.9 | 5802.6  | 5465.3  | 5435.9  | 5520.2  | 5979.1  | 6563.5  | 6698.8  | 6543.9  | 6453.7  |
| 27.5° | 6543.9 | 5794.8  | 5388.8  | 5379.0  | 5494.7  | 6024.2  | 6718.4  | 7069.4  | 6875.3  | 6808.6  |
| 30°   | 6753.7 | 5869.3  | 5406.5  | 5426.1  | 5567.3  | 6187.0  | 6959.6  | 7493.0  | 7298.8  | 7194.9  |
| 32.5° | 7055.7 | 6069.3  | 5675.1  | 5759.5  | 5863.4  | 6447.8  | 7312.6  | 7951.9  | 7804.8  | 7651.8  |
| 35°   | 7453.8 | 6618.4  | 6469.3  | 6828.2  | 6730.2  | 7018.4  | 7738.1  | 8508.8  | 8330.3  | 8197.0  |
| 37.5° | 7985.2 | 7744.0  | 7881.3  | 8375.4  | 8138.2  | 8097.0  | 8257.8  | 9014.7  | 8916.7  | 8783.3  |
| 40°   | 8730.4 | 8779.4  | 9032.4  | 9681.5  | 9338.3  | 9073.6  | 8895.1  | 9395.2  | 9428.5  | 9263.8  |
| 42.5° | 9224.5 | 9450.1  | 10059.9 | 10797.3 | 10324.7 | 9691.3  | 9428.5  | 9881.5  | 9883.4  | 9734.4  |
| 45°   | 9408.9 | 9999.1  | 11273.8 | 12122.9 | 11332.6 | 10044.2 | 9722.6  | 10542.3 | 10522.7 | 10352.1 |
| 47.5° | 9342.2 | 10461.9 | 12534.7 | 13832.9 | 12626.9 | 10295.3 | 9681.5  | 11483.6 | 11642.5 | 11383.6 |
| 50°   | 9203.0 | 10926.7 | 14007.4 | 15927.2 | 14215.3 | 10562.0 | 9618.7  | 12526.9 | 12789.6 | 12589.6 |
| 52.5° | 9344.2 | 11444.4 | 15748.8 | 18092.2 | 16207.7 | 10987.5 | 10042.3 | 13866.2 | 13819.2 | 13578.0 |
| 55°   | 9791.3 | 12056.2 | 17864.7 | 20812.1 | 18396.1 | 11707.2 | 11130.6 | 15142.8 | 14664.4 | 14376.1 |
| 57.5° | 9769.7 | 12493.5 | 19719.8 | 22963.3 | 20300.3 | 12297.4 | 11509.1 | 15278.2 | 14311.4 | 13946.6 |
| 60°   | 8867.6 | 12293.5 | 20425.8 | 24324.3 | 20874.9 | 11971.9 | 10263.9 | 13646.6 | 12075.8 | 11693.4 |
| 62.5° | 6618.4 | 10909.0 | 19057.0 | 22620.1 | 19249.2 | 10340.4 | 7718.5  | 9795.2  | 8677.4  | 8032.3  |
| 65°   | 4233.8 | 8534.3  | 16021.4 | 18325.6 | 15866.5 | 7908.7  | 4596.6  | 5251.6  | 4114.2  | 3929.8  |
| 67.5° | 1802.2 | 6024.2  | 12454.3 | 12248.4 | 11869.9 | 5124.1  | 1774.7  | 1478.6  | 1102.1  | 1082.5  |
| 70°   | 596.1  | 4098.5  | 7677.3  | 8169.5  | 7089.0  | 3529.8  | 586.3   | 496.1   | 494.2   | 476.5   |
| 72.5° | 390.2  | 2200.2  | 4322.0  | 4812.3  | 4561.3  | 2031.6  | 354.9   | 331.4   | 339.3   | 331.4   |
| 75°   | 233.4  | 478.5   | 727.5   | 945.2   | 727.5   | 341.2   | 213.7   | 209.8   | 213.7   | 203.9   |
| 77.5° | 137.3  | 133.3   | 129.4   | 129.4   | 127.5   | 117.7   | 107.9   | 103.9   | 105.9   | 107.9   |
| 80°   | 88.2   | 84.3    | 80.4    | 78.4    | 68.6    | 64.7    | 60.8    | 56.9    | 56.9    | 58.8    |
| 82.5° | 56.9   | 52.9    | 49.0    | 43.1    | 35.3    | 29.4    | 27.5    | 23.5    | 23.5    | 25.5    |
| 85°   | 29.4   | 23.5    | 17.6    | 13.7    | 7.8     | 3.9     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 5.9    | 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     |

(END OF REPORT)