

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: P640851

Luminaire Tested: GWS-SA5E-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35861.3 lumens
Efficiency: N/A
Efficacy: 133.0 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): 269.6
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

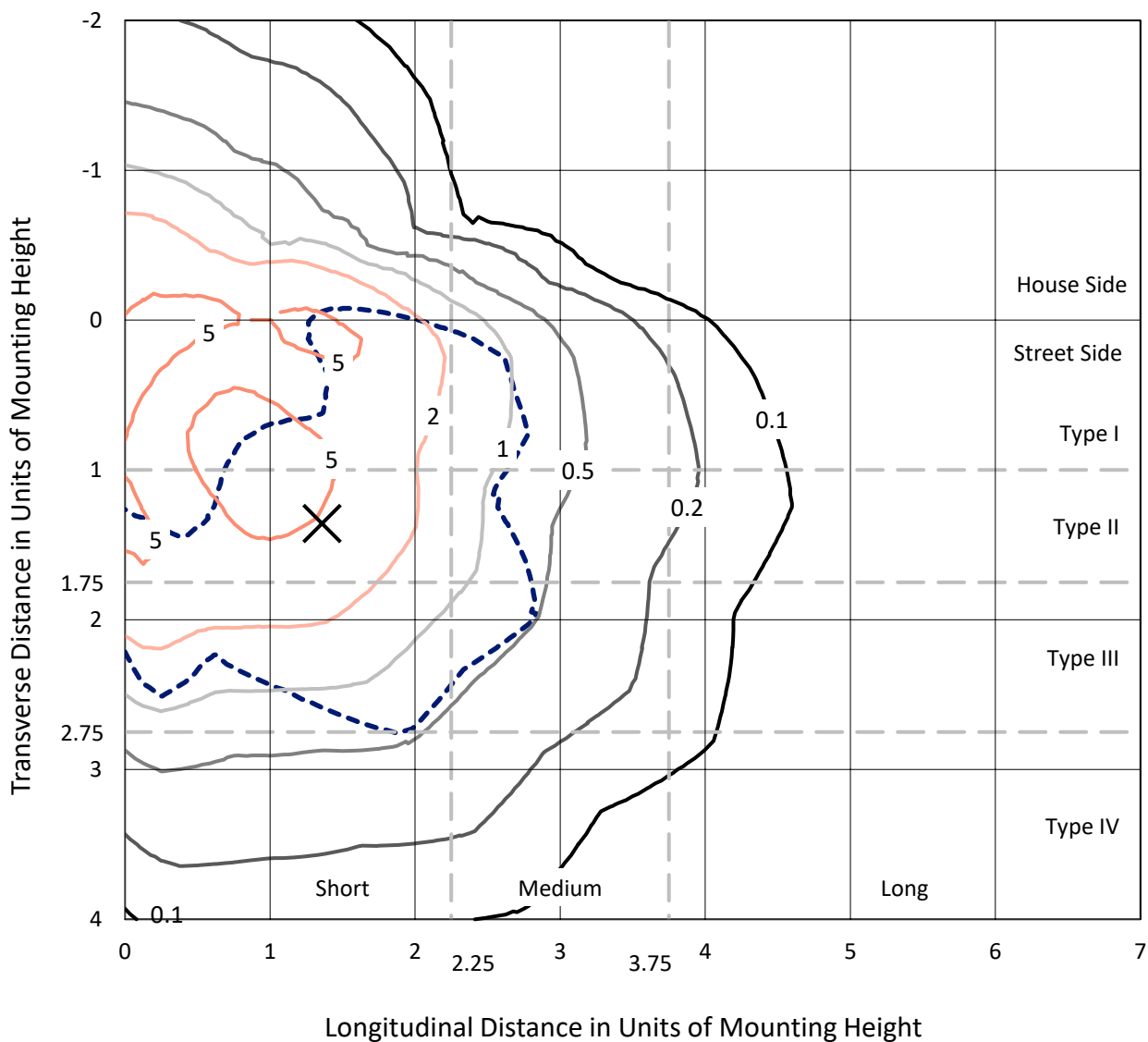


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Iso-Footcandle Lines of Horizontal Illumination

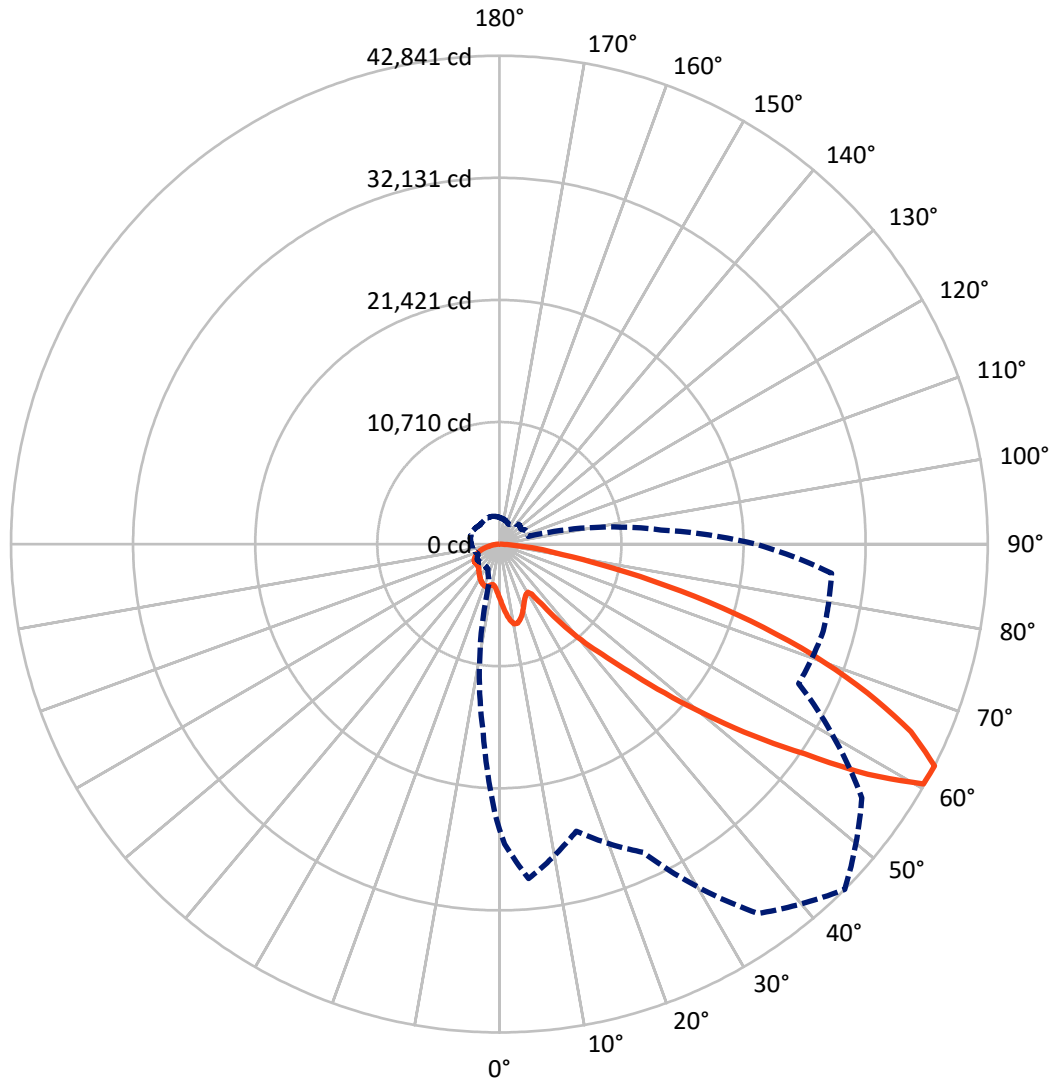
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8557.2 | 0.0 | 8557.2 |
| | % Fixture | 23.9 | 0.0 | 23.9 |
| Street Side | Lumens | 27304.1 | 0.0 | 27304.1 |
| | % Fixture | 76.1 | 0.0 | 76.1 |
| Total | Lumens | 35861.3 | 0.0 | 35861.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 464.8 | 1.3 |
| 10°-20° | 1457.2 | 4.1 |
| 20°-30° | 2263.3 | 6.3 |
| 30°-40° | 3073.0 | 8.6 |
| 40°-50° | 4870.4 | 13.6 |
| 50°-60° | 8591.3 | 24.0 |
| 60°-70° | 9559.2 | 26.7 |
| 70°-80° | 4848.1 | 13.5 |
| 80°-90° | 734.1 | 2.0 |
| 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° | 35861.3 | 100.0 |
| 0°-180° | 35861.3 | 100.0 |

Coefficient of Utilization



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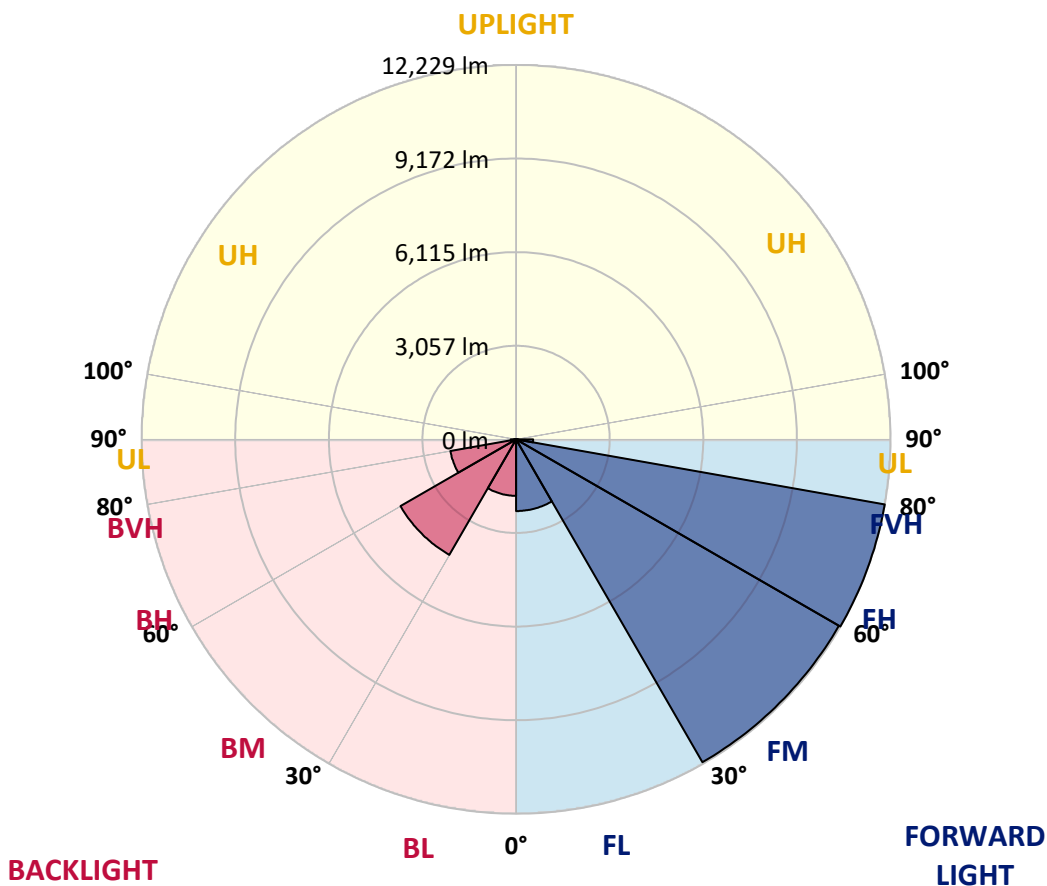
CATALOG NUMBER: GWS-SA5E-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2341.4 | 6.5 | | | |
| FM (30°-60°) | 12176.5 | 34.0 | | | |
| FH (60°-80°) | 12229.0 | 34.1 | | | G5 |
| FVH (80°-90°) | 557.2 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1843.9 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 4358.2 | 12.2 | B3/5000 | | |
| BH (60°-80°) | 2178.2 | 6.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 176.9 | 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° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 |
| 2.5° | 5115.2 | 5112.5 | 5164.1 | 5242.8 | 5316.1 | 5348.7 | 5403.0 | 5397.6 | 5354.1 | 5297.1 | 5278.1 |
| 5° | 5517.0 | 5527.9 | 5617.5 | 5791.3 | 5984.0 | 6065.5 | 6100.8 | 6087.2 | 6008.5 | 5908.0 | 5731.5 |
| 7.5° | 5880.9 | 5899.9 | 6038.3 | 6299.0 | 6537.9 | 6646.5 | 6733.4 | 6717.1 | 6603.1 | 6415.7 | 6155.1 |
| 10° | 6146.9 | 6168.7 | 6334.3 | 6641.1 | 6907.2 | 7002.2 | 7113.5 | 7118.9 | 7018.5 | 6766.0 | 6499.9 |
| 12.5° | 6413.0 | 6434.7 | 6589.5 | 6869.1 | 7042.9 | 7045.6 | 7110.8 | 7146.1 | 7151.5 | 7034.8 | 6768.7 |
| 15° | 6689.9 | 6709.0 | 6850.1 | 7007.6 | 6999.5 | 6847.4 | 6847.4 | 6915.3 | 7064.6 | 7148.8 | 6964.2 |
| 17.5° | 6926.2 | 6950.6 | 7059.2 | 7007.6 | 6766.0 | 6491.7 | 6459.2 | 6546.0 | 6806.7 | 7129.8 | 7110.8 |
| 20° | 7121.6 | 7140.6 | 7200.4 | 6858.3 | 6418.4 | 6060.0 | 5997.6 | 6098.1 | 6451.0 | 7013.0 | 7222.1 |
| 22.5° | 7309.0 | 7319.8 | 7287.3 | 6662.8 | 6043.8 | 5633.8 | 5557.8 | 5663.6 | 6043.8 | 6806.7 | 7317.1 |
| 25° | 7531.6 | 7520.8 | 7366.0 | 6459.2 | 5701.7 | 5297.1 | 5218.4 | 5337.8 | 5734.2 | 6532.5 | 7420.3 |
| 27.5° | 7789.6 | 7748.8 | 7433.9 | 6239.2 | 5438.3 | 5047.3 | 4993.0 | 5120.6 | 5489.9 | 6280.0 | 7501.8 |
| 30° | 8009.5 | 7930.7 | 7444.7 | 6043.8 | 5302.5 | 4941.4 | 4908.9 | 5028.3 | 5370.4 | 6108.9 | 7604.9 |
| 32.5° | 8253.8 | 8145.2 | 7507.2 | 5992.2 | 5378.6 | 5196.7 | 5240.1 | 5248.2 | 5403.0 | 6060.0 | 7759.7 |
| 35° | 8604.1 | 8462.9 | 7678.2 | 6141.5 | 6160.5 | 6467.3 | 6624.8 | 6413.0 | 5894.4 | 6168.7 | 8052.9 |
| 37.5° | 9133.5 | 8954.3 | 8025.8 | 6787.7 | 7776.0 | 8462.9 | 8843.0 | 8359.7 | 7387.7 | 6578.6 | 8495.5 |
| 40° | 9777.0 | 9548.9 | 8471.0 | 7982.3 | 9285.6 | 10385.2 | 11061.2 | 10352.6 | 8924.5 | 7602.2 | 9117.2 |
| 42.5° | 10675.7 | 10436.7 | 9334.4 | 9155.2 | 10683.8 | 12321.0 | 13203.4 | 12147.2 | 10279.3 | 8924.5 | 10113.7 |
| 45° | 12242.3 | 12011.5 | 10917.3 | 10330.9 | 12321.0 | 14704.8 | 15942.9 | 14474.1 | 11655.8 | 10252.1 | 11976.2 |
| 47.5° | 15136.5 | 14865.0 | 13268.6 | 11634.1 | 14189.0 | 17800.0 | 19532.3 | 17392.8 | 13086.7 | 11772.6 | 15104.0 |
| 50° | 18611.8 | 18351.2 | 16219.9 | 13176.3 | 16252.4 | 21109.7 | 23518.0 | 20821.9 | 14734.7 | 13621.5 | 18842.6 |
| 52.5° | 22793.1 | 22744.2 | 20430.9 | 15125.7 | 18400.1 | 24639.3 | 27940.8 | 24620.3 | 16540.2 | 16111.3 | 23078.1 |
| 55° | 26561.6 | 27039.4 | 25779.6 | 18098.7 | 21174.9 | 29073.0 | 32488.6 | 28763.5 | 18989.2 | 20227.3 | 28038.6 |
| 57.5° | 28592.5 | 29876.7 | 31812.5 | 24164.2 | 25209.5 | 34372.9 | 38100.7 | 33821.7 | 23197.6 | 27080.2 | 32637.9 |
| 60° | 27251.2 | 28706.5 | 32214.4 | 28730.9 | 29211.5 | 38619.2 | 42732.6 | 38073.5 | 27329.9 | 31837.0 | 32377.3 |
| 62.5° | 25019.4 | 26325.4 | 29445.0 | 26064.7 | 29830.5 | 39553.2 | 42841.2 | 38814.7 | 28972.6 | 29423.3 | 29246.8 |
| 65° | 22372.2 | 23689.0 | 26993.3 | 22752.3 | 27862.1 | 37335.0 | 39680.8 | 36634.5 | 26021.3 | 26583.3 | 26648.5 |
| 67.5° | 18856.2 | 20072.6 | 23436.5 | 20230.0 | 25396.8 | 34079.6 | 34829.0 | 33528.5 | 23963.3 | 24859.2 | 23922.5 |
| 70° | 14088.5 | 15185.4 | 18155.7 | 16439.8 | 21408.4 | 29838.7 | 29233.2 | 29426.0 | 21652.7 | 22543.3 | 19983.0 |
| 72.5° | 9627.7 | 10453.0 | 12999.8 | 12918.3 | 16393.6 | 23887.2 | 23042.8 | 24870.1 | 18085.1 | 19266.2 | 15234.3 |
| 75° | 6733.4 | 7376.9 | 9396.9 | 10206.0 | 12391.6 | 17705.0 | 16409.9 | 18614.6 | 14123.8 | 15809.9 | 11115.5 |
| 77.5° | 4132.3 | 4558.6 | 5935.2 | 7561.5 | 7971.5 | 12117.4 | 10192.4 | 14007.1 | 9918.2 | 11530.9 | 7414.9 |
| 80° | 2066.2 | 2272.5 | 2883.4 | 4754.1 | 5286.3 | 7140.6 | 5628.4 | 8131.7 | 6711.7 | 7140.6 | 4102.5 |
| 82.5° | 624.5 | 689.6 | 844.4 | 1805.5 | 2739.5 | 4110.6 | 3326.0 | 4724.2 | 3665.4 | 3347.7 | 1615.5 |
| 85° | 165.6 | 187.3 | 233.5 | 534.9 | 961.1 | 1474.3 | 1124.0 | 2288.8 | 1756.7 | 1235.4 | 608.2 |
| 87.5° | 13.6 | 13.6 | 10.9 | 10.9 | 5.4 | 0.0 | 0.0 | 162.9 | 328.5 | 187.3 | 105.9 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 |
| 2.5° | 5183.1 | 5172.2 | 5060.9 | 4979.4 | 4884.4 | 4792.1 | 4697.1 | 4612.9 | 4517.9 | 4422.9 | 4395.7 |
| 5° | 5601.2 | 5525.2 | 5289.0 | 5090.8 | 4895.3 | 4724.2 | 4574.9 | 4420.1 | 4295.2 | 4173.1 | 4126.9 |
| 7.5° | 5970.5 | 5837.4 | 5495.3 | 5193.9 | 4922.4 | 4710.7 | 4490.7 | 4265.4 | 4088.9 | 3915.1 | 3871.7 |
| 10° | 6304.4 | 6127.9 | 5696.2 | 5316.1 | 5014.7 | 4773.1 | 4515.2 | 4213.8 | 3958.6 | 3746.8 | 3689.8 |
| 12.5° | 6551.5 | 6358.7 | 5870.0 | 5432.9 | 5090.8 | 4819.3 | 4564.0 | 4298.0 | 4029.2 | 3754.9 | 3692.5 |
| 15° | 6747.0 | 6546.0 | 6013.9 | 5522.5 | 5093.5 | 4743.2 | 4496.2 | 4403.9 | 4319.7 | 4050.9 | 3936.9 |
| 17.5° | 6904.4 | 6692.7 | 6138.8 | 5576.8 | 5020.2 | 4512.5 | 4298.0 | 4433.7 | 4648.2 | 4479.9 | 4265.4 |
| 20° | 7048.3 | 6833.8 | 6233.8 | 5614.8 | 4857.3 | 4194.8 | 4075.3 | 4363.1 | 4686.2 | 4680.8 | 4488.0 |
| 22.5° | 7205.8 | 6996.7 | 6372.3 | 5636.5 | 4629.2 | 3871.7 | 3942.3 | 4260.0 | 4523.3 | 4602.1 | 4482.6 |
| 25° | 7406.7 | 7222.1 | 6565.1 | 5685.4 | 4371.3 | 3649.1 | 3844.5 | 4126.9 | 4346.8 | 4365.8 | 4295.2 |
| 27.5° | 7640.2 | 7501.8 | 6852.8 | 5799.4 | 4121.5 | 3535.0 | 3730.5 | 3939.6 | 4140.5 | 4148.6 | 4064.5 |
| 30° | 7895.4 | 7803.1 | 7118.9 | 5894.4 | 3934.1 | 3499.7 | 3583.9 | 3752.2 | 3879.8 | 3901.6 | 3828.3 |
| 32.5° | 8221.2 | 8139.8 | 7355.1 | 5832.0 | 3822.8 | 3491.6 | 3448.1 | 3535.0 | 3640.9 | 3640.9 | 3583.9 |
| 35° | 8669.2 | 8555.2 | 7604.9 | 5593.1 | 3687.1 | 3459.0 | 3304.2 | 3328.7 | 3374.8 | 3383.0 | 3350.4 |
| 37.5° | 9304.6 | 9117.2 | 7857.4 | 5120.6 | 3464.4 | 3342.3 | 3138.6 | 3108.8 | 3125.1 | 3146.8 | 3138.6 |
| 40° | 10091.9 | 9785.1 | 8226.7 | 4553.2 | 3198.4 | 3116.9 | 2967.6 | 2910.6 | 2897.0 | 2940.4 | 2956.7 |
| 42.5° | 11082.9 | 10613.2 | 8623.1 | 4023.7 | 2956.7 | 2859.0 | 2766.7 | 2717.8 | 2696.1 | 2769.4 | 2812.8 |
| 45° | 12665.8 | 11892.0 | 9003.2 | 3499.7 | 2821.0 | 2639.1 | 2576.6 | 2541.3 | 2552.2 | 2639.1 | 2693.4 |
| 47.5° | 15399.9 | 13844.2 | 9364.3 | 3168.5 | 2810.1 | 2481.6 | 2405.6 | 2413.7 | 2443.6 | 2535.9 | 2601.0 |
| 50° | 18858.9 | 16458.8 | 9605.9 | 3030.0 | 2842.7 | 2386.6 | 2286.1 | 2329.5 | 2375.7 | 2465.3 | 2541.3 |
| 52.5° | 22380.4 | 18894.2 | 9318.1 | 2954.0 | 2840.0 | 2389.3 | 2174.8 | 2305.1 | 2326.8 | 2416.4 | 2497.9 |
| 55° | 24802.2 | 19165.7 | 8050.2 | 2837.3 | 2796.5 | 2497.9 | 2087.9 | 2294.2 | 2307.8 | 2389.3 | 2462.6 |
| 57.5° | 25725.3 | 18237.2 | 6138.8 | 2869.8 | 2666.2 | 2582.0 | 2049.9 | 2218.2 | 2316.0 | 2386.6 | 2462.6 |
| 60° | 24609.4 | 16485.9 | 3730.5 | 2954.0 | 2457.1 | 2576.6 | 2074.3 | 2079.7 | 2248.1 | 2367.5 | 2443.6 |
| 62.5° | 22505.3 | 14237.9 | 2620.0 | 2715.1 | 2305.1 | 2432.7 | 2131.3 | 1916.8 | 2128.6 | 2272.5 | 2340.4 |
| 65° | 20094.3 | 11593.4 | 1998.3 | 2337.7 | 2231.8 | 2210.1 | 2150.3 | 1772.9 | 1965.7 | 2106.9 | 2166.6 |
| 67.5° | 17582.8 | 9011.3 | 1623.6 | 1743.1 | 2017.3 | 1998.3 | 1965.7 | 1645.3 | 1772.9 | 1873.4 | 1941.3 |
| 70° | 14419.8 | 6304.4 | 1371.1 | 1308.7 | 1729.5 | 1791.9 | 1718.6 | 1485.1 | 1525.9 | 1629.0 | 1683.3 |
| 72.5° | 10548.1 | 3928.7 | 1126.8 | 1080.6 | 1390.1 | 1566.6 | 1528.6 | 1308.7 | 1327.7 | 1425.4 | 1468.9 |
| 75° | 7585.9 | 2248.1 | 904.1 | 890.5 | 1061.6 | 1341.2 | 1265.2 | 1126.8 | 1148.5 | 1221.8 | 1251.6 |
| 77.5° | 4822.0 | 1251.6 | 697.8 | 716.8 | 760.2 | 1001.9 | 1080.6 | 963.9 | 963.9 | 1007.3 | 1031.7 |
| 80° | 2582.0 | 716.8 | 510.4 | 518.6 | 532.2 | 765.7 | 852.5 | 746.6 | 746.6 | 716.8 | 746.6 |
| 82.5° | 1053.4 | 412.7 | 350.2 | 325.8 | 355.7 | 524.0 | 597.3 | 475.1 | 496.9 | 448.0 | 458.8 |
| 85° | 347.5 | 206.3 | 173.8 | 171.0 | 168.3 | 230.8 | 287.8 | 236.2 | 282.4 | 179.2 | 187.3 |
| 87.5° | 46.2 | 38.0 | 21.7 | 16.3 | 19.0 | 8.1 | 16.3 | 19.0 | 19.0 | 13.6 | 13.6 |
| 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-SA5E-760-U-SLR-W

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 |
| 2.5° | 4376.7 | 4355.0 | 4276.2 | 4295.2 | 4281.7 | 4260.0 | 4281.7 | 4240.9 | 4273.5 | 4284.4 | 4352.3 |
| 5° | 4091.6 | 4040.0 | 3964.0 | 3926.0 | 3917.9 | 3896.1 | 3898.8 | 3879.8 | 3885.3 | 3931.4 | 4007.5 |
| 7.5° | 3836.4 | 3787.5 | 3727.8 | 3700.6 | 3676.2 | 3651.8 | 3649.1 | 3646.3 | 3668.1 | 3708.8 | 3782.1 |
| 10° | 3651.8 | 3624.6 | 3600.2 | 3611.1 | 3600.2 | 3589.3 | 3570.3 | 3570.3 | 3605.6 | 3678.9 | 3768.5 |
| 12.5° | 3651.8 | 3646.3 | 3651.8 | 3684.4 | 3681.6 | 3684.4 | 3659.9 | 3673.5 | 3771.2 | 3896.1 | 4023.7 |
| 15° | 3847.3 | 3803.8 | 3803.8 | 3820.1 | 3814.7 | 3814.7 | 3814.7 | 3871.7 | 4094.3 | 4287.1 | 4422.9 |
| 17.5° | 4086.2 | 3958.6 | 3904.3 | 3896.1 | 3893.4 | 3893.4 | 3904.3 | 4026.5 | 4374.0 | 4577.6 | 4656.4 |
| 20° | 4251.8 | 4010.2 | 3920.6 | 3885.3 | 3888.0 | 3893.4 | 3926.0 | 4094.3 | 4477.2 | 4580.3 | 4561.3 |
| 22.5° | 4281.7 | 3969.4 | 3860.8 | 3809.3 | 3817.4 | 3822.8 | 3871.7 | 4050.9 | 4336.0 | 4352.3 | 4314.3 |
| 25° | 4143.2 | 3855.4 | 3738.7 | 3697.9 | 3708.8 | 3706.1 | 3749.5 | 3879.8 | 4083.5 | 4078.0 | 4056.3 |
| 27.5° | 3936.9 | 3673.5 | 3586.6 | 3559.5 | 3578.5 | 3556.7 | 3570.3 | 3670.8 | 3828.3 | 3822.8 | 3814.7 |
| 30° | 3725.1 | 3497.0 | 3418.3 | 3404.7 | 3429.1 | 3396.6 | 3399.3 | 3483.4 | 3592.0 | 3586.6 | 3583.9 |
| 32.5° | 3513.3 | 3320.5 | 3249.9 | 3249.9 | 3274.4 | 3239.1 | 3244.5 | 3317.8 | 3391.1 | 3369.4 | 3369.4 |
| 35° | 3312.4 | 3176.6 | 3119.6 | 3108.8 | 3127.8 | 3103.3 | 3114.2 | 3182.1 | 3209.2 | 3179.4 | 3160.3 |
| 37.5° | 3135.9 | 3076.2 | 3019.2 | 2981.2 | 2983.9 | 2986.6 | 3019.2 | 3070.8 | 3054.5 | 3011.0 | 2986.6 |
| 40° | 2973.0 | 2973.0 | 2918.7 | 2848.1 | 2840.0 | 2859.0 | 2913.3 | 2970.3 | 2924.1 | 2875.3 | 2845.4 |
| 42.5° | 2856.3 | 2880.7 | 2829.1 | 2758.5 | 2742.2 | 2774.8 | 2834.5 | 2875.3 | 2821.0 | 2766.7 | 2725.9 |
| 45° | 2747.7 | 2807.4 | 2772.1 | 2693.4 | 2671.6 | 2709.6 | 2785.7 | 2802.0 | 2728.7 | 2677.1 | 2647.2 |
| 47.5° | 2671.6 | 2753.1 | 2728.7 | 2652.6 | 2620.0 | 2674.3 | 2753.1 | 2750.4 | 2658.1 | 2603.8 | 2579.3 |
| 50° | 2617.3 | 2720.5 | 2717.8 | 2652.6 | 2617.3 | 2685.2 | 2755.8 | 2720.5 | 2620.0 | 2563.0 | 2538.6 |
| 52.5° | 2573.9 | 2717.8 | 2736.8 | 2698.8 | 2674.3 | 2734.1 | 2777.5 | 2709.6 | 2592.9 | 2533.2 | 2514.2 |
| 55° | 2554.9 | 2728.7 | 2742.2 | 2706.9 | 2685.2 | 2739.5 | 2777.5 | 2731.4 | 2592.9 | 2538.6 | 2522.3 |
| 57.5° | 2560.3 | 2715.1 | 2717.8 | 2668.9 | 2630.9 | 2698.8 | 2758.5 | 2744.9 | 2622.8 | 2560.3 | 2541.3 |
| 60° | 2527.7 | 2641.8 | 2647.2 | 2571.2 | 2527.7 | 2609.2 | 2715.1 | 2706.9 | 2609.2 | 2544.0 | 2508.7 |
| 62.5° | 2419.1 | 2519.6 | 2522.3 | 2451.7 | 2389.3 | 2506.0 | 2622.8 | 2620.0 | 2530.5 | 2465.3 | 2424.6 |
| 65° | 2237.2 | 2343.1 | 2370.3 | 2302.4 | 2253.5 | 2378.4 | 2500.6 | 2495.2 | 2405.6 | 2345.8 | 2305.1 |
| 67.5° | 2011.9 | 2125.9 | 2177.5 | 2131.3 | 2112.3 | 2226.4 | 2340.4 | 2337.7 | 2264.4 | 2207.4 | 2172.1 |
| 70° | 1737.6 | 1832.7 | 1919.6 | 1919.6 | 1906.0 | 2036.3 | 2158.5 | 2147.6 | 2079.7 | 2036.3 | 2009.2 |
| 72.5° | 1509.6 | 1582.9 | 1610.0 | 1637.2 | 1677.9 | 1813.7 | 1916.8 | 1925.0 | 1876.1 | 1854.4 | 1876.1 |
| 75° | 1284.2 | 1330.4 | 1354.8 | 1333.1 | 1403.7 | 1544.9 | 1680.6 | 1694.2 | 1642.6 | 1607.3 | 1615.5 |
| 77.5° | 1056.2 | 1107.8 | 1132.2 | 1083.3 | 1077.9 | 1257.1 | 1422.7 | 1452.6 | 1409.1 | 1354.8 | 1371.1 |
| 80° | 762.9 | 830.8 | 871.5 | 839.0 | 828.1 | 906.8 | 1134.9 | 1167.5 | 1126.8 | 1083.3 | 1107.8 |
| 82.5° | 467.0 | 505.0 | 515.9 | 548.4 | 616.3 | 648.9 | 730.4 | 839.0 | 809.1 | 771.1 | 839.0 |
| 85° | 184.6 | 219.9 | 244.4 | 276.9 | 323.1 | 382.8 | 450.7 | 537.6 | 488.7 | 472.4 | 556.6 |
| 87.5° | 10.9 | 2.7 | 0.0 | 5.4 | 46.2 | 89.6 | 192.8 | 266.1 | 222.6 | 238.9 | 287.8 |
| 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° | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 | 4759.5 |
| 2.5° | 4406.6 | 4477.2 | 4572.2 | 4650.9 | 4751.4 | 4846.4 | 4944.2 | 5041.9 | 5093.5 | 5115.2 |
| 5° | 4094.3 | 4224.7 | 4376.7 | 4545.0 | 4740.5 | 4946.9 | 5155.9 | 5370.4 | 5506.2 | 5517.0 |
| 7.5° | 3907.0 | 4094.3 | 4303.4 | 4515.2 | 4756.8 | 5041.9 | 5373.1 | 5704.4 | 5842.8 | 5880.9 |
| 10° | 3966.7 | 4175.8 | 4341.4 | 4539.6 | 4805.7 | 5161.4 | 5552.3 | 5940.6 | 6100.8 | 6146.9 |
| 12.5° | 4205.7 | 4246.4 | 4298.0 | 4479.9 | 4805.7 | 5264.5 | 5737.0 | 6198.5 | 6369.6 | 6413.0 |
| 15° | 4403.9 | 4208.4 | 4116.1 | 4308.8 | 4740.5 | 5354.1 | 5932.4 | 6442.9 | 6649.2 | 6689.9 |
| 17.5° | 4420.1 | 4083.5 | 3882.6 | 4056.3 | 4626.5 | 5416.6 | 6119.8 | 6714.4 | 6888.1 | 6926.2 |
| 20° | 4254.5 | 3950.4 | 3689.8 | 3795.7 | 4471.7 | 5443.7 | 6255.5 | 6912.6 | 7083.6 | 7121.6 |
| 22.5° | 4067.2 | 3841.8 | 3559.5 | 3554.0 | 4284.4 | 5473.6 | 6418.4 | 7099.9 | 7284.5 | 7309.0 |
| 25° | 3890.7 | 3692.5 | 3453.6 | 3377.6 | 4067.2 | 5530.6 | 6638.4 | 7382.3 | 7523.5 | 7531.6 |
| 27.5° | 3684.4 | 3532.3 | 3369.4 | 3296.1 | 3877.1 | 5639.2 | 6964.2 | 7719.0 | 7803.1 | 7789.6 |
| 30° | 3497.0 | 3383.0 | 3309.7 | 3288.0 | 3757.7 | 5720.7 | 7273.7 | 8050.2 | 8055.6 | 8009.5 |
| 32.5° | 3298.8 | 3255.4 | 3255.4 | 3326.0 | 3659.9 | 5701.7 | 7526.2 | 8373.3 | 8321.7 | 8253.8 |
| 35° | 3122.3 | 3130.5 | 3187.5 | 3353.1 | 3497.0 | 5511.6 | 7767.8 | 8777.8 | 8701.8 | 8604.1 |
| 37.5° | 2954.0 | 3016.4 | 3097.9 | 3258.1 | 3282.5 | 5229.2 | 8050.2 | 9350.7 | 9255.7 | 9133.5 |
| 40° | 2810.1 | 2905.1 | 3000.2 | 3078.9 | 3054.5 | 4827.4 | 8443.9 | 10024.1 | 9918.2 | 9777.0 |
| 42.5° | 2696.1 | 2788.4 | 2894.3 | 2902.4 | 2910.6 | 4409.3 | 8862.0 | 10849.4 | 10830.4 | 10675.7 |
| 45° | 2622.8 | 2682.5 | 2783.0 | 2769.4 | 2902.4 | 3947.7 | 9247.5 | 12109.2 | 12359.0 | 12242.3 |
| 47.5° | 2573.9 | 2620.0 | 2630.9 | 2687.9 | 2973.0 | 3535.0 | 9744.4 | 14574.5 | 15269.6 | 15136.5 |
| 50° | 2546.7 | 2592.9 | 2470.7 | 2693.4 | 2983.9 | 3269.0 | 10431.3 | 17669.7 | 18788.3 | 18611.8 |
| 52.5° | 2544.0 | 2533.2 | 2348.5 | 2750.4 | 2924.1 | 3106.0 | 10789.7 | 19928.7 | 22410.2 | 22793.1 |
| 55° | 2549.5 | 2413.7 | 2286.1 | 2766.7 | 2804.7 | 3046.3 | 9589.6 | 21014.7 | 25752.5 | 26561.6 |
| 57.5° | 2500.6 | 2283.4 | 2321.4 | 2701.5 | 2579.3 | 3206.5 | 7089.1 | 20626.4 | 27088.3 | 28592.5 |
| 60° | 2408.3 | 2158.5 | 2386.6 | 2525.0 | 2348.5 | 2932.3 | 4881.7 | 18894.2 | 25703.6 | 27251.2 |
| 62.5° | 2275.2 | 2071.6 | 2378.4 | 2297.0 | 2264.4 | 2400.1 | 3355.8 | 16469.6 | 23507.1 | 25019.4 |
| 65° | 2125.9 | 2001.0 | 2250.8 | 2077.0 | 2096.0 | 1846.3 | 2373.0 | 13732.9 | 20884.4 | 22372.2 |
| 67.5° | 1965.7 | 1957.6 | 2063.5 | 1849.0 | 1770.2 | 1463.4 | 1729.5 | 11006.9 | 17515.0 | 18856.2 |
| 70° | 1783.8 | 1843.5 | 1876.1 | 1642.6 | 1436.3 | 1148.5 | 1284.2 | 7697.2 | 12921.0 | 14088.5 |
| 72.5° | 1601.9 | 1607.3 | 1653.5 | 1428.1 | 1075.2 | 920.4 | 963.9 | 4661.8 | 8777.8 | 9627.7 |
| 75° | 1417.3 | 1365.7 | 1409.1 | 1162.1 | 800.9 | 754.8 | 743.9 | 2880.7 | 6062.8 | 6733.4 |
| 77.5° | 1219.1 | 1162.1 | 1105.0 | 874.3 | 643.5 | 583.7 | 570.2 | 1615.5 | 3719.7 | 4132.3 |
| 80° | 991.0 | 915.0 | 825.4 | 640.8 | 469.7 | 418.1 | 415.4 | 787.4 | 1854.4 | 2066.2 |
| 82.5° | 771.1 | 627.2 | 602.7 | 399.1 | 290.5 | 255.2 | 271.5 | 301.4 | 559.3 | 624.5 |
| 85° | 540.3 | 456.1 | 320.4 | 160.2 | 130.3 | 105.9 | 103.2 | 89.6 | 149.3 | 165.6 |
| 87.5° | 301.4 | 198.2 | 103.2 | 19.0 | 21.7 | 24.4 | 19.0 | 13.6 | 13.6 | 13.6 |
| 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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