

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: P639255

Luminaire Tested: GWS-SA5B-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639255  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

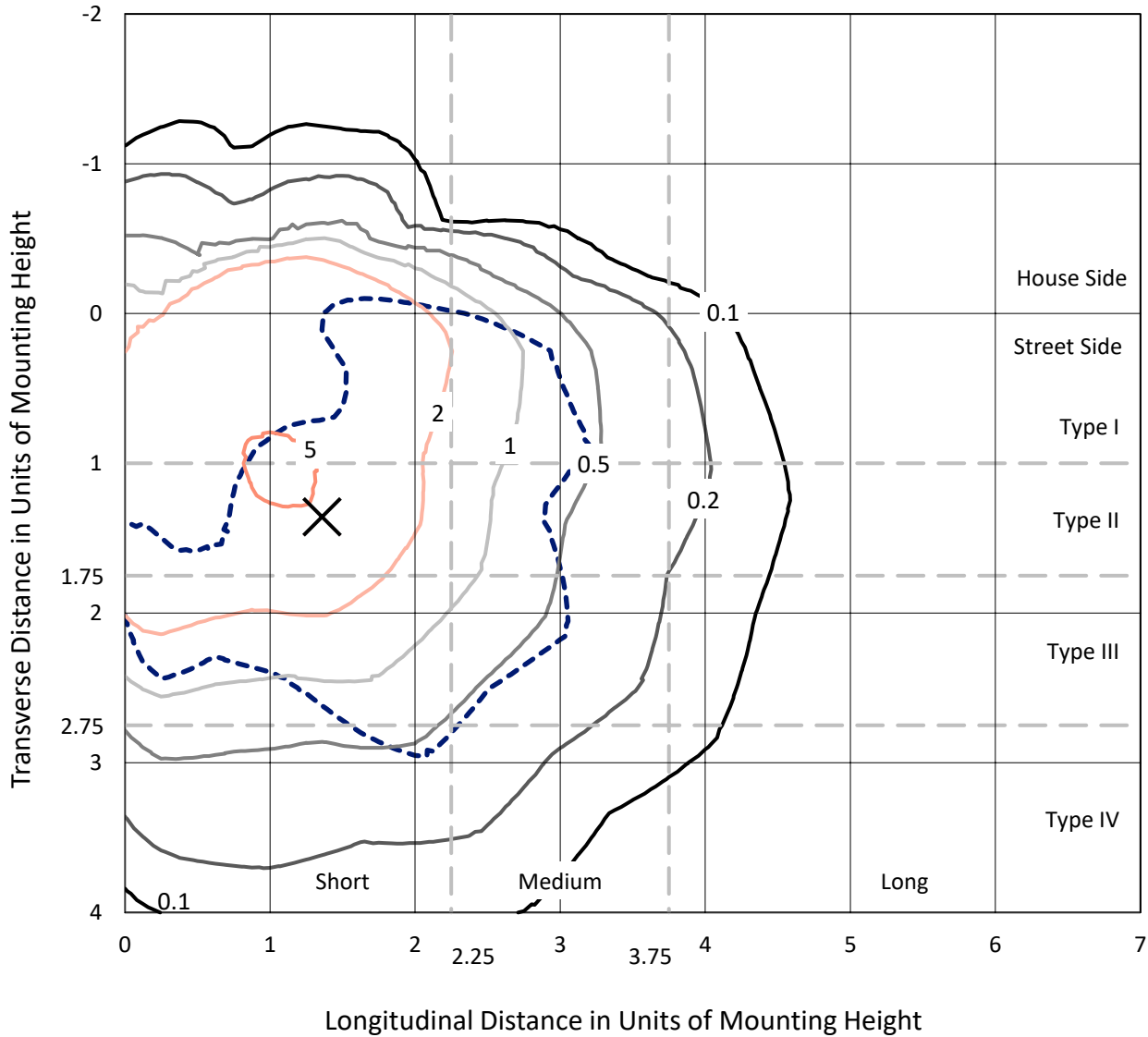
Lumens per Lamp: N/A  
Luminaire Lumens: 11019.2 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

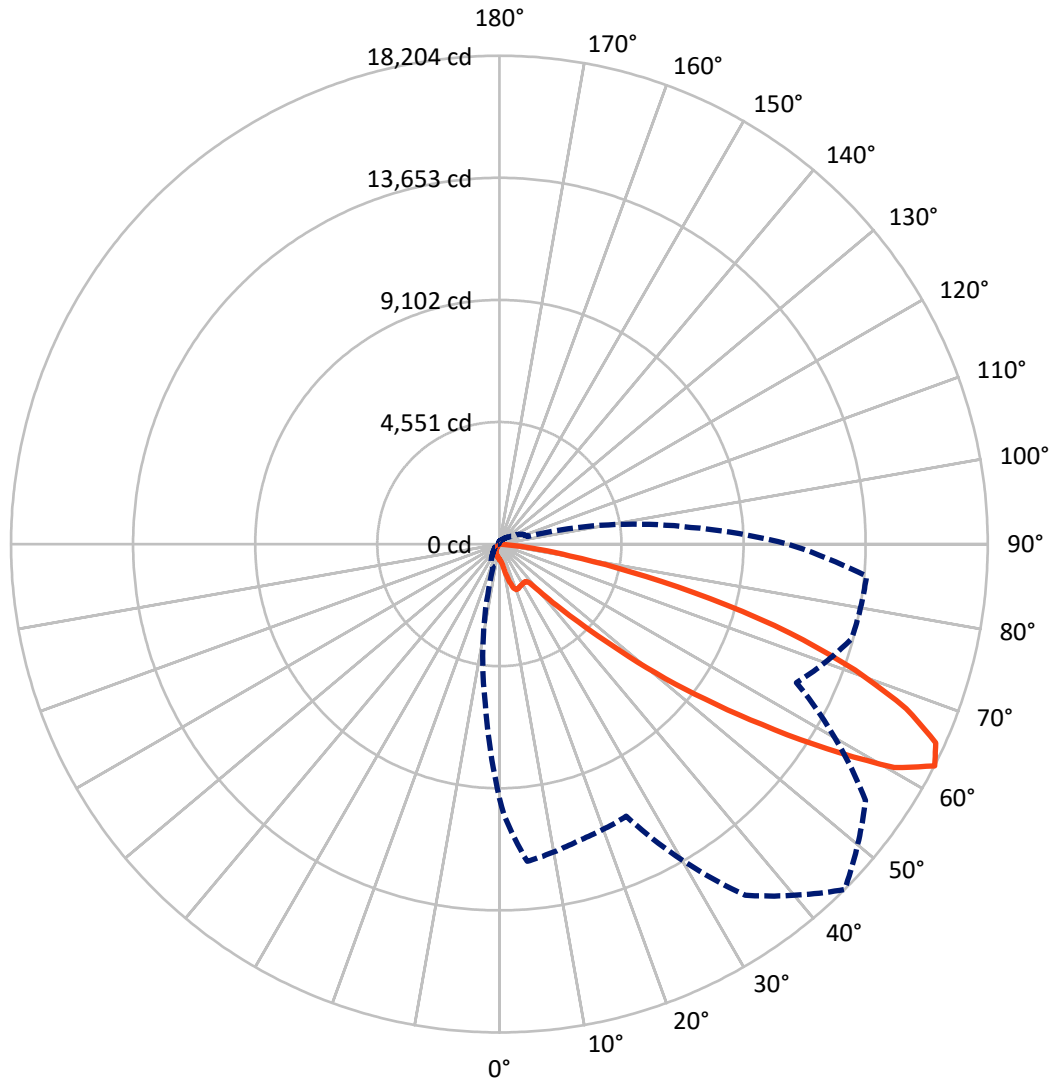
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - 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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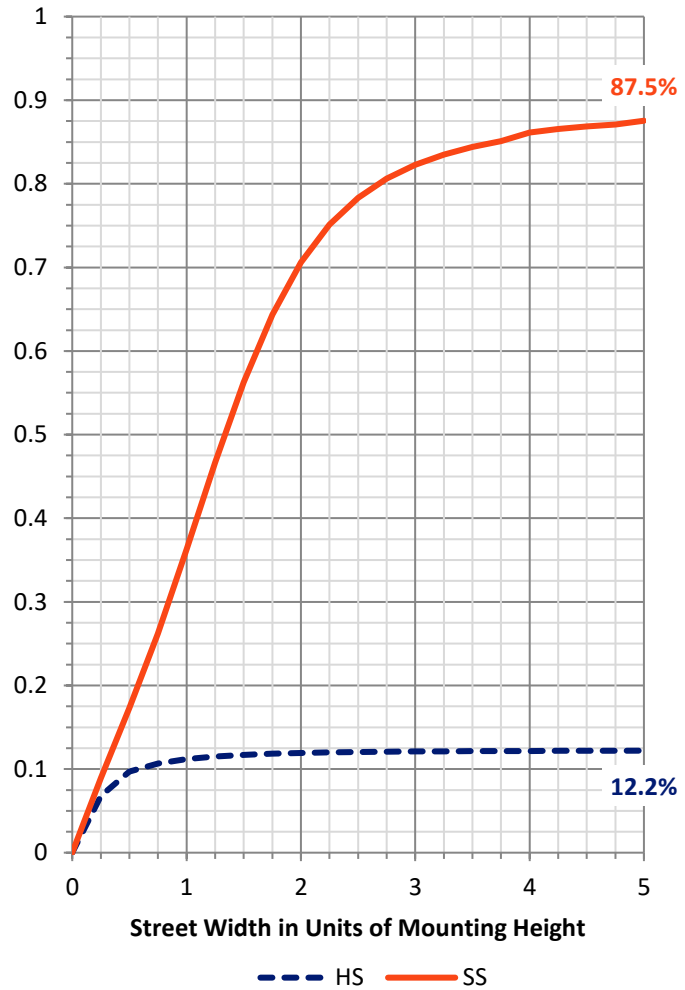
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1359.8	0.0	1359.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	9659.4	0.0	9659.4
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	11019.2	0.0	11019.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.8	0.5
10°-20°	192.1	1.7
20°-30°	417.6	3.8
30°-40°	685.5	6.2
40°-50°	1260.1	11.4
50°-60°	2706.2	24.6
60°-70°	3634.8	33.0
70°-80°	1892.7	17.2
80°-90°	179.5	1.6
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°	11019.2	100.0
0°-180°	11019.2	100.0

**Coefficient of Utilization**



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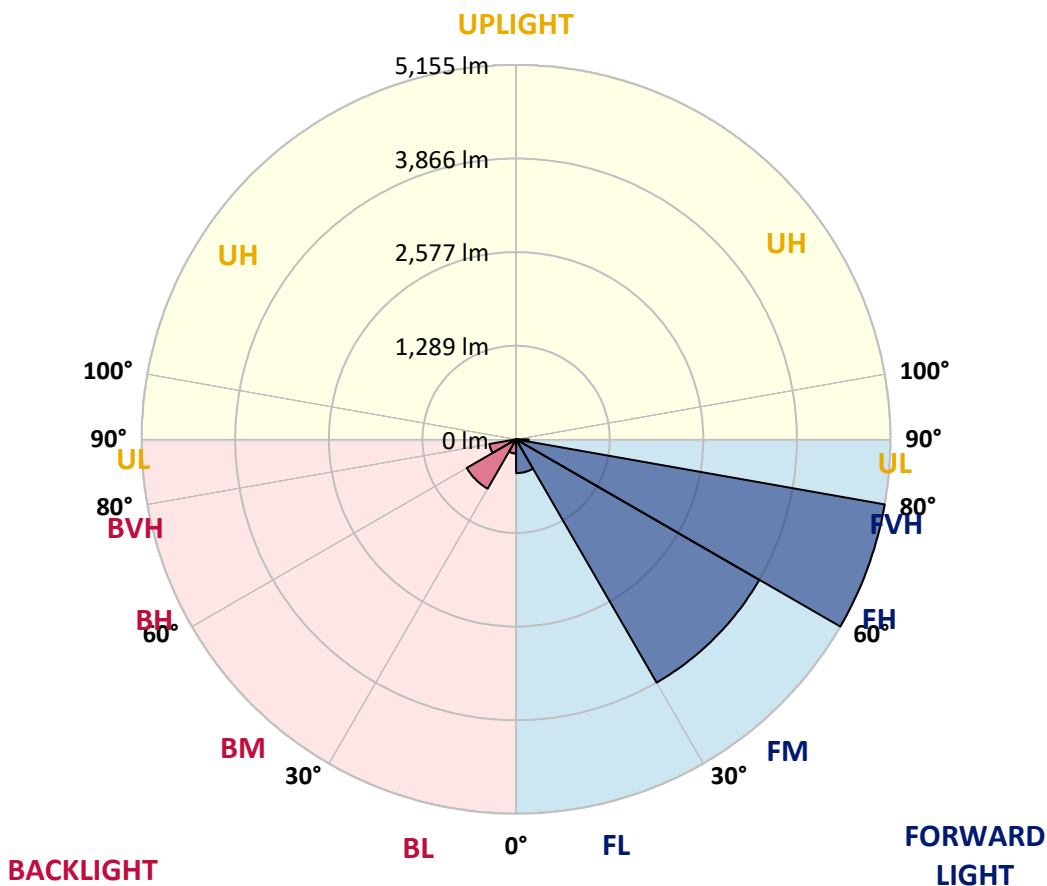
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	465.5	4.2			
FM (30°-60°)	3867.6	35.1			
FH (60°-80°)	5154.9	46.8			G3/7500
FVH (80°-90°)	171.5	1.6			G2/225
BL (0°-30°)	195.0	1.8	B1/500		
BM (30°-60°)	784.1	7.1	B1/1000		
BH (60°-80°)	372.6	3.4	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	584.2	586.8	589.3	598.2	604.6	609.7	611.0	607.1	598.2	589.3	576.6
5°	566.4	568.9	577.9	602.0	626.2	645.3	651.7	647.9	626.2	598.2	568.9
7.5°	565.1	570.2	591.9	642.8	695.0	734.4	744.6	735.7	695.0	639.0	579.1
10°	611.0	619.9	651.7	743.3	838.8	908.8	936.8	898.6	833.7	731.9	633.9
12.5°	730.6	745.9	807.0	940.6	1088.3	1181.2	1219.4	1172.3	1070.4	922.8	767.5
15°	919.0	941.9	1033.5	1233.4	1407.7	1490.5	1503.2	1476.5	1358.1	1195.2	986.4
17.5°	1185.0	1218.1	1360.6	1564.3	1690.3	1719.6	1715.8	1687.8	1601.2	1489.2	1291.9
20°	1503.2	1542.7	1682.7	1850.7	1863.4	1829.0	1809.9	1793.4	1764.1	1745.0	1591.0
22.5°	1823.9	1872.3	2018.7	2060.7	1946.1	1846.9	1799.8	1812.5	1855.8	1950.0	1887.6
25°	2143.4	2189.2	2326.7	2213.4	1984.3	1818.9	1759.0	1789.6	1892.7	2096.3	2176.5
27.5°	2516.4	2550.7	2632.2	2317.8	1990.7	1795.9	1737.4	1784.5	1910.5	2188.0	2493.4
30°	2904.6	2924.9	2885.5	2345.8	1969.0	1761.6	1715.8	1784.5	1941.0	2249.1	2731.5
32.5°	3189.7	3193.5	3064.9	2348.3	1957.6	1733.6	1695.4	1776.9	1970.3	2300.0	2961.8
35°	3483.7	3464.6	3236.8	2386.5	1988.1	1743.8	1710.7	1798.5	2016.1	2359.8	3164.2
37.5°	3781.5	3747.2	3429.0	2448.9	2067.1	1854.5	1834.1	1909.2	2090.0	2442.5	3387.0
40°	4087.0	4039.9	3628.8	2543.1	2242.7	2231.2	2301.3	2292.3	2292.3	2548.2	3616.1
42.5°	4460.0	4405.2	3924.1	2809.1	2652.6	2908.4	3099.3	2980.9	2762.0	2791.3	3913.9
45°	4952.5	4905.4	4435.8	3318.2	3295.3	3883.4	4140.5	3906.3	3361.5	3352.6	4411.6
47.5°	5740.4	5731.5	5251.6	3908.8	4081.9	5124.4	5620.8	5170.2	4045.0	3947.0	5353.5
50°	6847.8	6821.0	6268.6	4601.2	5017.4	6661.9	7547.8	6796.8	4871.1	4640.7	6614.8
52.5°	8095.1	8123.1	7692.9	5357.3	6011.5	8372.6	9606.0	8660.2	5768.4	5522.8	8202.0
55°	9269.9	9430.3	9317.0	6241.9	6982.7	10261.5	11866.5	10704.4	6879.6	6677.2	9981.4
57.5°	10188.9	10640.8	11435.0	7527.4	8124.4	12471.1	14390.5	12920.4	8176.6	8552.1	12403.6
60°	10239.8	10838.0	12682.4	10216.9	9593.2	14366.3	16910.6	15085.4	10215.6	11735.4	14301.4
62.5°	9472.3	10113.8	11870.3	11438.8	11193.2	15978.9	18203.8	16663.7	12221.6	13600.1	13738.8
65°	8594.1	9241.9	10964.0	10052.7	11007.3	15910.2	17875.4	16700.6	12403.6	12332.3	12732.0
67.5°	7266.5	7848.2	9407.4	8898.3	10145.6	15142.7	16358.2	15648.0	11427.4	11534.3	11712.5
70°	5303.8	5863.9	7311.1	7336.5	8860.1	13759.2	14055.7	13957.7	10523.7	10636.9	10127.8
72.5°	3831.2	4303.4	5552.0	6016.6	7073.0	11538.1	11333.2	11711.2	9029.4	9473.6	8134.6
75°	2754.4	3108.2	4073.0	5233.8	5606.8	8568.6	8112.9	9070.1	7244.9	8157.5	6115.9
77.5°	1117.5	1242.3	1602.5	3525.7	3684.8	5764.6	4966.5	6588.1	5165.1	5359.8	2964.4
80°	45.8	50.9	66.2	1820.1	2526.5	3243.1	2657.6	3521.9	3411.2	2158.7	700.0
82.5°	5.1	5.1	11.5	524.4	1106.1	1789.6	1252.5	2028.9	1727.2	915.2	318.2
85°	1.3	1.3	2.5	59.8	259.7	286.4	169.3	622.4	803.1	374.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	11.5	12.7	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°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	576.6	570.2	562.6	554.9	551.1	540.9	537.1	534.6	532.0	533.3	533.3
5°	557.5	543.5	526.9	510.4	501.5	491.3	486.2	483.7	484.9	490.0	490.0
7.5°	554.9	528.2	492.6	470.9	460.8	453.1	448.0	445.5	446.8	453.1	455.7
10°	597.0	549.9	486.2	449.3	437.8	430.2	425.1	421.3	418.8	423.8	425.1
12.5°	687.3	622.4	516.8	446.8	426.4	416.2	412.4	404.8	400.9	403.5	404.8
15°	874.4	762.4	577.9	456.9	416.2	404.8	398.4	392.0	385.7	384.4	385.7
17.5°	1118.8	958.4	670.8	481.1	408.6	394.6	385.7	376.8	367.8	366.6	365.3
20°	1421.7	1199.0	800.6	519.3	402.2	385.7	372.9	360.2	348.8	344.9	344.9
22.5°	1697.9	1489.2	967.3	566.4	393.3	372.9	357.7	342.4	329.7	323.3	322.0
25°	2035.2	1797.2	1167.2	621.1	380.6	356.4	339.8	324.6	311.8	304.2	301.7
27.5°	2375.1	2121.8	1393.7	692.4	365.3	339.8	324.6	310.6	296.6	287.7	285.1
30°	2704.7	2471.8	1648.3	781.5	353.8	323.3	310.6	296.6	283.8	269.8	266.0
32.5°	3058.6	2829.5	1933.4	880.8	344.9	311.8	297.8	285.1	268.6	255.8	249.5
35°	3399.7	3198.6	2247.8	977.5	336.0	301.7	286.4	273.7	255.8	241.8	232.9
37.5°	3743.4	3574.1	2576.2	1036.1	323.3	287.7	273.7	263.5	243.1	226.6	216.4
40°	4107.4	3962.3	2931.3	1011.9	311.8	272.4	264.7	253.3	230.4	211.3	198.6
42.5°	4507.0	4332.7	3292.8	919.0	301.7	259.7	252.0	240.6	218.9	196.0	179.5
45°	5009.8	4738.7	3589.3	779.0	306.7	246.9	231.7	229.1	208.7	179.5	159.1
47.5°	5874.1	5362.4	3819.7	688.6	341.1	232.9	215.1	221.5	199.8	162.9	140.0
50°	7196.5	6395.9	4034.8	682.2	393.3	226.6	199.8	216.4	190.9	146.4	123.5
52.5°	8456.6	7446.0	4172.3	738.2	439.1	243.1	184.6	210.0	184.6	134.9	112.0
55°	9662.0	8051.8	3926.6	779.0	482.4	292.7	173.1	199.8	176.9	128.6	108.2
57.5°	10961.5	8321.7	3091.7	861.7	512.9	334.8	175.6	184.6	166.7	124.7	106.9
60°	11349.7	7976.7	1866.0	969.9	496.4	347.5	194.7	164.2	152.7	117.1	103.1
62.5°	10746.4	7158.3	1101.0	883.3	482.4	328.4	222.7	151.5	138.7	106.9	95.5
65°	9844.0	6047.2	717.9	745.9	511.7	292.7	236.7	145.1	126.0	96.7	84.0
67.5°	8813.0	4871.1	502.8	440.4	472.2	263.5	199.8	143.8	113.3	81.5	68.7
70°	7423.1	3647.9	353.8	291.5	393.3	234.2	155.3	140.0	99.3	66.2	53.5
72.5°	5735.3	2283.4	263.5	188.4	280.0	190.9	123.5	118.4	80.2	54.7	40.7
75°	4229.6	1302.1	185.8	136.2	184.6	145.1	91.6	84.0	68.7	52.2	36.9
77.5°	2208.3	651.7	115.8	104.4	105.6	90.4	66.2	61.1	63.6	52.2	34.4
80°	423.8	129.8	70.0	76.4	57.3	57.3	48.4	50.9	56.0	42.0	29.3
82.5°	176.9	28.0	38.2	43.3	35.6	39.5	39.5	40.7	39.5	30.5	21.6
85°	0.0	0.0	16.5	17.8	24.2	24.2	20.4	20.4	20.4	17.8	12.7
87.5°	0.0	0.0	0.0	0.0	1.3	3.8	7.6	8.9	10.2	7.6	5.1
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	532.0	529.5	533.3	535.9	538.4	538.4	535.9	533.3	529.5	533.3	529.5
5°	491.3	495.1	501.5	504.0	506.6	501.5	498.9	491.3	484.9	486.2	483.7
7.5°	459.5	463.3	470.9	476.0	476.0	473.5	465.9	458.2	448.0	448.0	446.8
10°	430.2	435.3	444.2	450.6	453.1	450.6	442.9	432.8	423.8	423.8	420.0
12.5°	406.0	412.4	422.6	431.5	434.0	431.5	423.8	413.7	403.5	403.5	400.9
15°	385.7	393.3	404.8	414.9	418.8	414.9	406.0	393.3	383.1	384.4	380.6
17.5°	366.6	372.9	388.2	399.7	403.5	399.7	388.2	371.7	361.5	364.0	361.5
20°	344.9	352.6	367.8	380.6	384.4	380.6	367.8	350.0	339.8	339.8	341.1
22.5°	322.0	329.7	344.9	353.8	358.9	355.1	342.4	325.8	315.7	315.7	316.9
25°	301.7	305.5	316.9	325.8	327.1	323.3	313.1	300.4	292.7	296.6	297.8
27.5°	282.6	282.6	287.7	292.7	291.5	287.7	283.8	273.7	272.4	276.2	280.0
30°	262.2	255.8	253.3	249.5	248.2	246.9	250.7	250.7	253.3	258.4	262.2
32.5°	244.4	231.7	220.2	208.7	202.4	207.5	217.7	226.6	235.5	243.1	246.9
35°	224.0	203.7	184.6	169.3	159.1	166.7	183.3	199.8	215.1	225.3	231.7
37.5°	203.7	174.4	151.5	132.4	124.7	131.1	148.9	171.8	194.7	207.5	216.4
40°	182.0	145.1	118.4	103.1	95.5	101.8	119.6	142.6	173.1	189.6	201.1
42.5°	160.4	119.6	95.5	80.2	76.4	80.2	94.2	117.1	150.2	170.6	185.8
45°	138.7	99.3	76.4	64.9	61.1	64.9	76.4	95.5	128.6	151.5	169.3
47.5°	119.6	84.0	63.6	53.5	50.9	54.7	63.6	80.2	108.2	131.1	151.5
50°	104.4	73.8	54.7	45.8	43.3	47.1	54.7	67.5	91.6	112.0	133.6
52.5°	94.2	68.7	48.4	39.5	38.2	40.7	47.1	57.3	77.6	95.5	115.8
55°	91.6	68.7	44.5	35.6	34.4	36.9	42.0	49.6	67.5	82.7	100.6
57.5°	94.2	73.8	42.0	30.5	29.3	31.8	36.9	43.3	58.5	71.3	87.8
60°	94.2	75.1	36.9	24.2	22.9	25.5	30.5	38.2	52.2	62.4	76.4
62.5°	85.3	68.7	30.5	19.1	16.5	19.1	25.5	31.8	45.8	56.0	67.5
65°	73.8	58.5	25.5	14.0	11.5	14.0	20.4	26.7	39.5	48.4	61.1
67.5°	59.8	44.5	19.1	10.2	7.6	10.2	15.3	21.6	33.1	42.0	54.7
70°	44.5	31.8	15.3	8.9	7.6	8.9	14.0	20.4	29.3	38.2	50.9
72.5°	33.1	21.6	12.7	8.9	6.4	8.9	12.7	19.1	28.0	36.9	48.4
75°	28.0	17.8	11.5	7.6	6.4	7.6	11.5	17.8	25.5	34.4	45.8
77.5°	26.7	16.5	10.2	6.4	5.1	6.4	10.2	15.3	22.9	31.8	44.5
80°	22.9	14.0	8.9	5.1	3.8	5.1	8.9	12.7	17.8	24.2	34.4
82.5°	17.8	11.5	6.4	2.5	1.3	2.5	6.4	7.6	11.5	14.0	20.4
85°	11.5	6.4	2.5	0.0	0.0	0.0	2.5	5.1	5.1	6.4	10.2
87.5°	5.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8
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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 CATALOG NUMBER: GWS-SA5B-740-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8	572.8
2.5°	537.1	538.4	540.9	544.8	553.7	561.3	568.9	579.1	584.2	584.2
5°	486.2	487.5	488.8	493.9	506.6	516.8	533.3	553.7	563.9	566.4
7.5°	446.8	449.3	451.9	455.7	468.4	482.4	504.0	542.2	561.3	565.1
10°	423.8	427.7	432.8	440.4	451.9	467.1	504.0	572.8	604.6	611.0
12.5°	406.0	412.4	417.5	426.4	440.4	464.6	538.4	659.3	715.3	730.6
15°	388.2	395.8	403.5	412.4	427.7	473.5	604.6	814.6	907.5	919.0
17.5°	370.4	379.3	389.5	399.7	418.8	495.1	709.0	1029.7	1159.5	1185.0
20°	350.0	361.5	375.5	388.2	409.8	529.5	854.1	1285.5	1448.5	1503.2
22.5°	328.4	342.4	358.9	375.5	399.7	571.5	1029.7	1560.5	1788.3	1823.9
25°	310.6	324.6	339.8	356.4	383.1	622.4	1242.3	1901.6	2109.1	2143.4
27.5°	294.0	308.0	322.0	337.3	366.6	688.6	1498.1	2264.3	2480.7	2516.4
30°	276.2	292.7	306.7	322.0	351.3	770.1	1793.4	2666.6	2871.5	2904.6
32.5°	260.9	277.5	291.5	306.7	339.8	859.2	2104.0	3022.9	3189.7	3189.7
35°	248.2	266.0	276.2	296.6	330.9	916.4	2398.0	3362.8	3488.8	3483.7
37.5°	234.2	255.8	263.5	277.5	319.5	922.8	2674.2	3721.7	3814.6	3781.5
40°	220.2	243.1	254.6	262.2	306.7	870.6	2977.1	4051.4	4130.3	4087.0
42.5°	207.5	225.3	241.8	250.7	299.1	779.0	3220.2	4403.9	4498.1	4460.0
45°	194.7	210.0	220.2	236.7	304.2	715.3	3429.0	4815.1	4980.5	4952.5
47.5°	182.0	194.7	201.1	226.6	338.6	686.0	3556.3	5451.5	5763.3	5740.4
50°	168.0	183.3	183.3	224.0	389.5	696.2	3667.0	6373.0	6855.4	6847.8
52.5°	154.0	170.6	168.0	243.1	428.9	743.3	3793.0	7186.3	8025.1	8095.1
55°	140.0	155.3	157.8	281.3	451.9	784.1	3305.5	7528.7	9024.3	9269.9
57.5°	124.7	133.6	164.2	310.6	444.2	902.4	2264.3	7591.1	9662.0	10188.9
60°	108.2	115.8	185.8	304.2	420.0	833.7	1425.6	7031.0	9571.6	10239.8
62.5°	94.2	106.9	196.0	268.6	427.7	723.0	908.8	5992.4	8709.9	9472.3
65°	82.7	103.1	178.2	243.1	432.8	490.0	613.5	4874.9	7868.6	8594.1
67.5°	73.8	114.6	146.4	216.4	371.7	344.9	421.3	3787.9	6616.1	7266.5
70°	67.5	117.1	119.6	185.8	287.7	221.5	277.5	2549.5	4560.5	5303.8
72.5°	61.1	86.6	90.4	148.9	185.8	134.9	179.5	1458.6	3324.6	3831.2
75°	58.5	58.5	62.4	96.7	103.1	98.0	115.8	870.6	2384.0	2754.4
77.5°	54.7	44.5	39.5	62.4	56.0	70.0	68.7	386.9	1033.5	1117.5
80°	43.3	31.8	26.7	39.5	38.2	47.1	40.7	31.8	47.1	45.8
82.5°	26.7	20.4	19.1	24.2	21.6	24.2	19.1	5.1	5.1	5.1
85°	12.7	11.5	10.2	10.2	11.5	10.2	7.6	2.5	1.3	1.3
87.5°	6.4	6.4	5.1	3.8	5.1	5.1	3.8	1.3	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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