

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: P640241

Luminaire Tested: GWS-SA5D-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-740-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

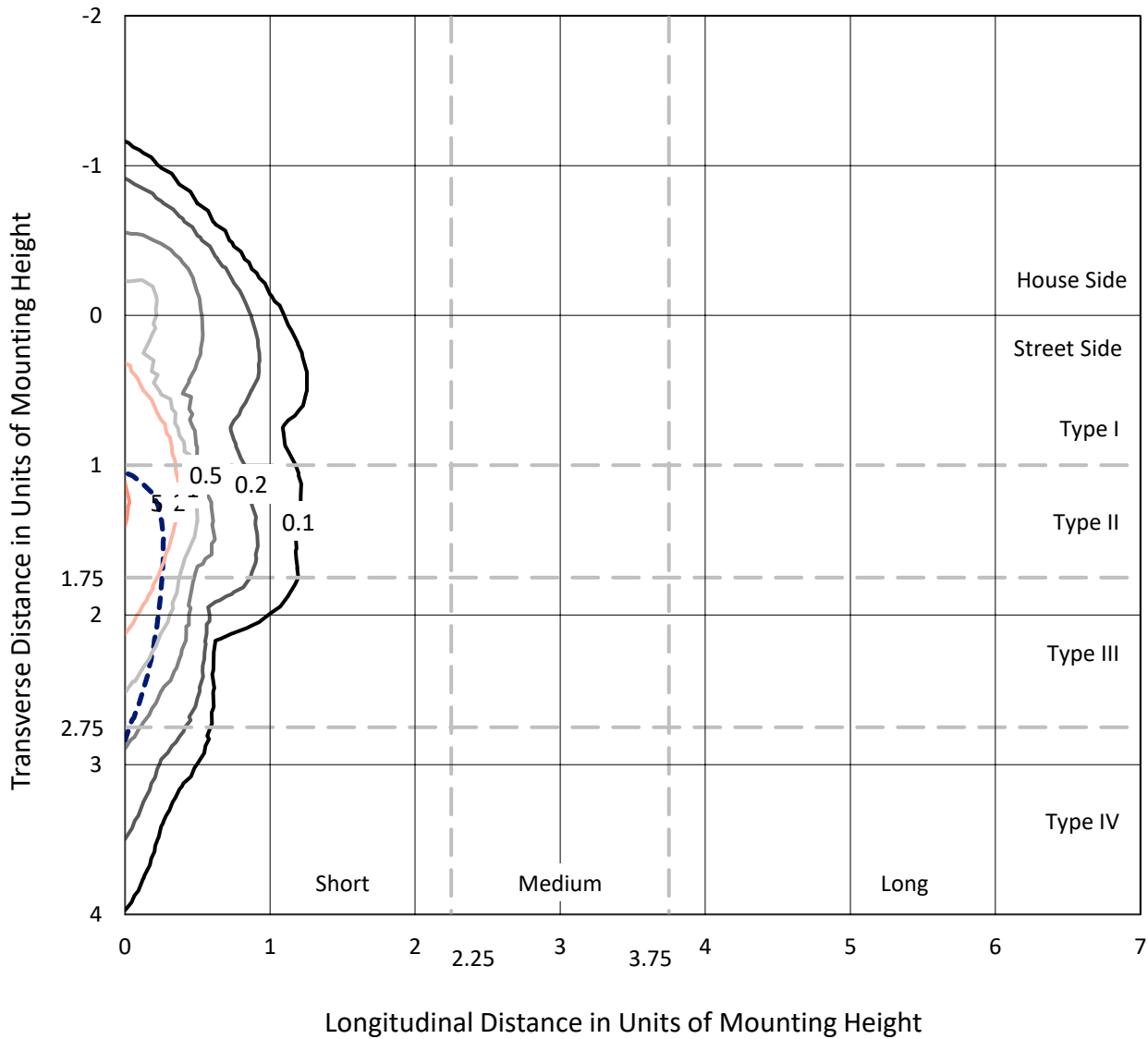
Lumens per Lamp: N/A  
Luminaire Lumens: 18188.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

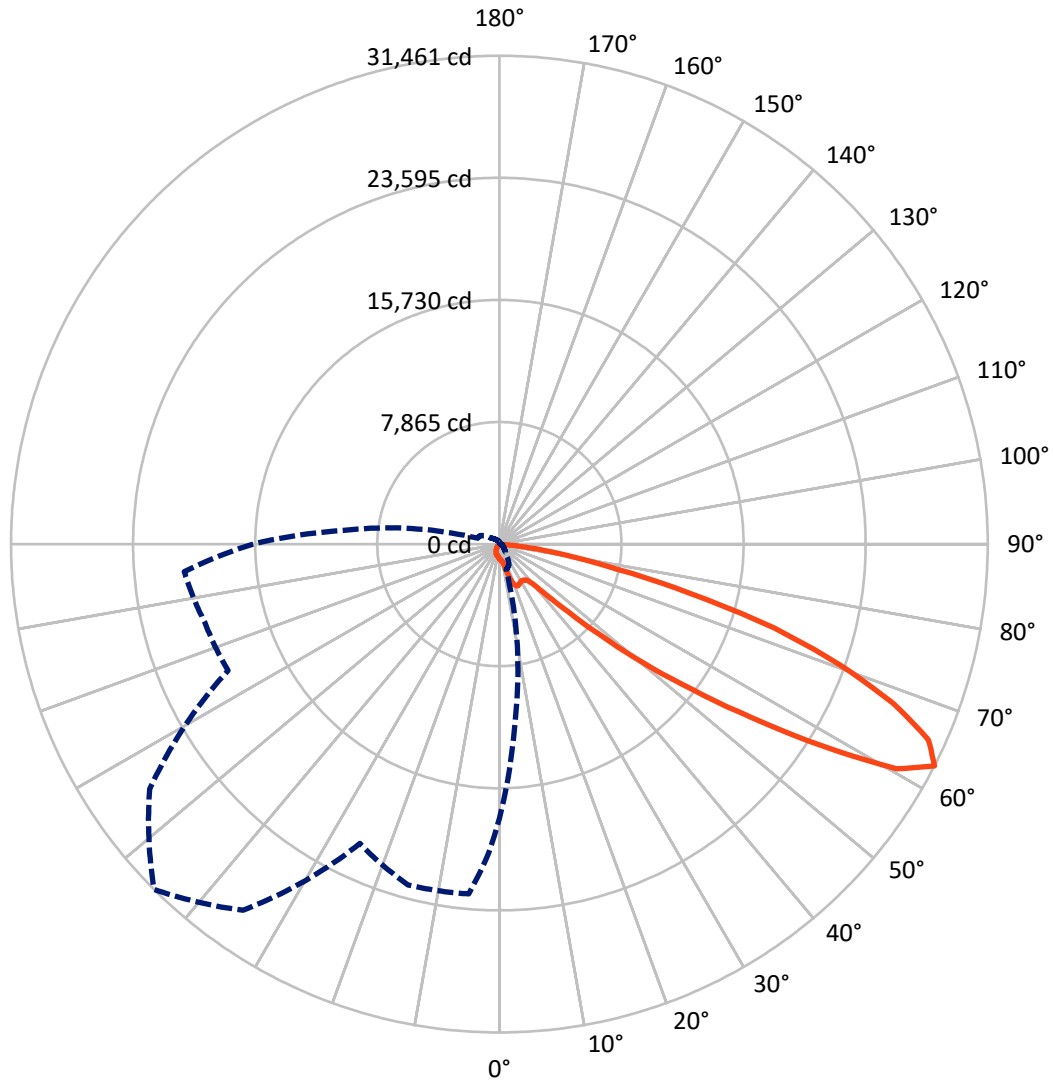
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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
<b>House Side</b>	Lumens	2113.3	0.0	2113.3
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	16075.6	0.0	16075.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	18188.9	0.0	18188.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	0.4
10°-20°	279.2	1.5
20°-30°	630.7	3.5
30°-40°	1086.6	6.0
40°-50°	2049.7	11.3
50°-60°	4576.5	25.2
60°-70°	6121.0	33.7
70°-80°	3069.5	16.9
80°-90°	294.2	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°	18188.9	100.0
0°-180°	18188.9	100.0

**Coefficient of Utilization**



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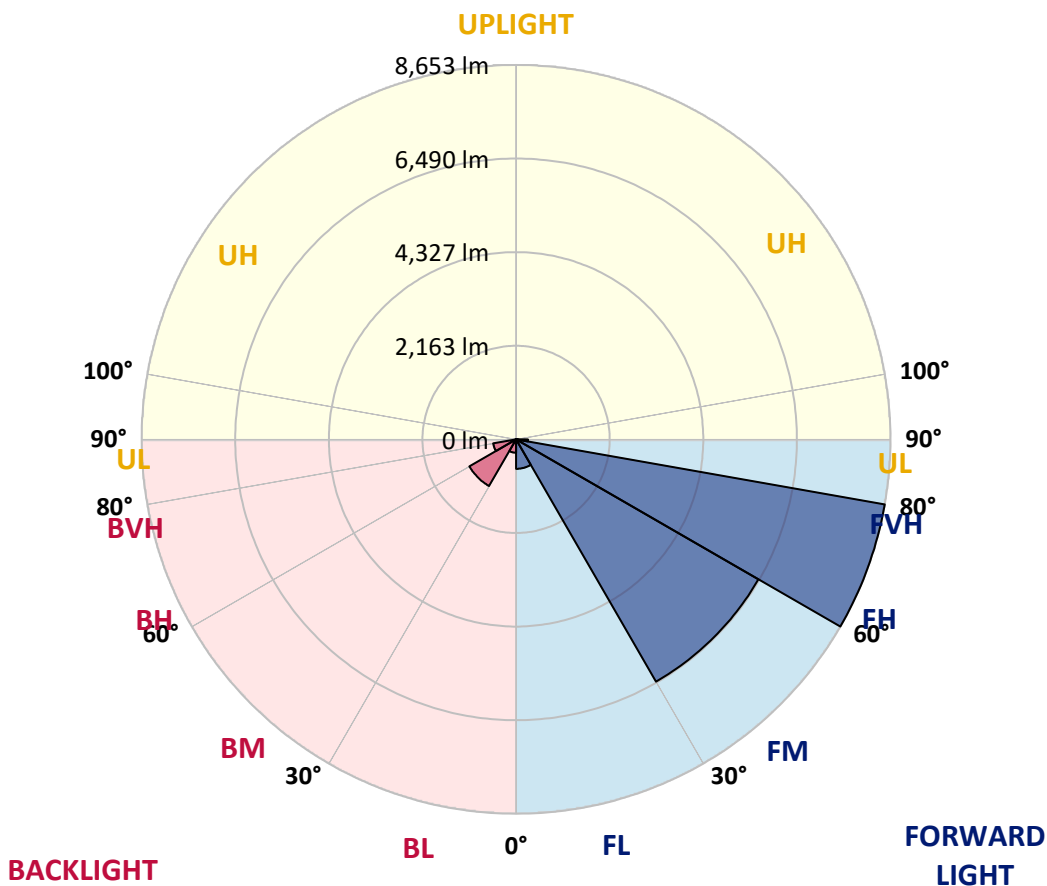
CATALOG NUMBER: GWS-SA5D-740-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	681.2	3.7			
FM (30°-60°)	6466.7	35.6			
FH (60°-80°)	8653.1	47.6			G4/12000
FVH (80°-90°)	274.6	1.5			G3/500
BL (0°-30°)	310.2	1.7	B1/500		
BM (30°-60°)	1246.1	6.9	B2/2500		
BH (60°-80°)	537.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	19.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	932.5	930.4	926.1	913.2	902.4	895.9	883.0	883.0	880.8	876.5	867.9
5°	902.4	893.8	885.2	861.5	835.6	820.5	803.3	801.2	801.2	796.9	794.7
7.5°	855.0	846.4	835.6	796.9	773.2	758.1	743.0	740.9	734.4	734.4	734.4
10°	829.2	816.2	799.0	755.9	732.2	719.3	708.6	702.1	697.8	691.3	689.2
12.5°	885.2	861.5	824.9	747.3	715.0	697.8	684.9	680.6	667.6	659.0	652.6
15°	1059.6	1001.5	928.2	766.7	708.6	682.7	665.5	656.9	646.1	631.0	620.3
17.5°	1346.0	1262.0	1139.3	829.2	702.1	669.8	648.3	633.2	618.1	600.9	587.9
20°	1742.3	1617.4	1470.9	943.3	702.1	654.7	628.9	609.5	587.9	568.6	553.5
22.5°	2246.3	2121.4	1871.5	1137.1	710.7	635.3	605.2	579.3	553.5	536.3	519.0
25°	2810.5	2633.9	2401.3	1371.9	734.4	609.5	577.2	551.3	527.6	506.1	486.7
27.5°	3439.4	3247.7	2937.6	1705.7	786.1	583.6	547.0	523.3	501.8	480.3	454.4
30°	4018.7	3904.6	3588.0	2106.3	870.1	566.4	523.3	501.8	480.3	452.3	428.6
32.5°	4714.4	4511.9	4251.3	2562.9	982.1	549.2	504.0	473.8	456.6	430.7	404.9
35°	5414.3	5242.0	4899.6	3125.0	1107.0	532.0	480.3	452.3	437.2	407.0	379.0
37.5°	6135.8	6097.0	5758.9	3747.4	1229.7	512.6	452.3	435.0	420.0	385.5	353.2
40°	6846.5	6775.4	6463.1	4458.1	1305.1	491.0	428.6	417.8	400.6	361.8	325.2
42.5°	7527.0	7473.2	7169.5	5138.6	1294.3	471.7	404.9	392.0	379.0	340.3	295.1
45°	8362.7	8274.4	7891.0	5642.6	1184.5	493.2	381.2	359.7	357.5	320.9	264.9
47.5°	9926.2	9635.5	8985.1	6030.2	1074.7	549.2	355.4	329.5	344.6	301.5	234.7
50°	12116.5	11774.1	10832.9	6331.8	1072.5	622.4	351.0	301.5	333.8	286.4	208.9
52.5°	14317.5	13714.5	12570.9	6493.3	1152.2	676.2	389.8	273.5	320.9	271.4	189.5
55°	16426.0	15174.7	13298.8	5959.2	1214.7	734.4	460.9	258.4	297.2	254.1	178.8
57.5°	18435.3	16348.4	13615.4	4714.4	1423.6	758.1	504.0	264.9	262.7	232.6	170.1
60°	18711.0	16292.4	12975.8	2741.6	1570.0	717.2	486.7	295.1	230.4	206.8	155.1
62.5°	17668.6	15209.1	11517.8	1710.0	1458.0	702.1	432.9	336.0	208.9	183.1	135.7
65°	16085.7	13509.9	9603.2	1102.7	1104.8	779.6	379.0	329.5	196.0	161.5	116.3
67.5°	13611.1	11306.7	7565.8	738.7	624.6	665.5	331.7	226.1	191.7	137.8	90.5
70°	9934.8	8048.2	4925.4	493.2	372.6	532.0	277.8	161.5	180.9	114.1	64.6
72.5°	7262.1	5407.8	2750.2	323.0	211.1	310.1	204.6	116.3	140.0	84.0	45.2
75°	5226.9	3721.5	1570.0	206.8	140.0	170.1	133.5	79.7	90.5	66.8	40.9
77.5°	2515.5	1813.4	712.9	114.1	94.8	86.1	71.1	49.5	56.0	60.3	36.6
80°	94.8	71.1	53.8	56.0	60.3	38.8	32.3	25.8	32.3	40.9	19.4
82.5°	0.0	0.0	0.0	6.5	8.6	10.8	12.9	10.8	12.9	15.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	874.4	870.1	874.4	878.7	883.0	887.3	880.8	885.2	889.5	878.7	883.0
5°	805.5	803.3	816.2	822.7	831.3	835.6	831.3	831.3	829.2	816.2	816.2
7.5°	745.2	747.3	758.1	773.2	783.9	790.4	786.1	783.9	777.5	758.1	758.1
10°	699.9	699.9	717.2	730.1	745.2	751.6	747.3	740.9	734.4	715.0	712.9
12.5°	663.3	663.3	676.2	697.8	715.0	723.6	721.5	712.9	702.1	682.7	680.6
15°	628.9	626.7	646.1	665.5	689.2	699.9	695.6	689.2	669.8	652.6	648.3
17.5°	594.4	592.3	609.5	635.3	661.2	676.2	674.1	659.0	641.8	620.3	615.9
20°	560.0	555.6	577.2	603.0	628.9	643.9	639.6	626.7	605.2	583.6	579.3
22.5°	525.5	523.3	538.4	560.0	583.6	596.6	594.4	583.6	562.1	542.7	542.7
25°	486.7	486.7	497.5	512.6	529.8	536.3	538.4	534.1	521.2	510.4	510.4
27.5°	454.4	448.0	452.3	456.6	465.2	476.0	476.0	480.3	482.4	478.1	480.3
30°	428.6	417.8	411.3	402.7	398.4	402.7	407.0	422.1	437.2	445.8	450.1
32.5°	398.4	385.5	368.3	344.6	329.5	325.2	338.1	366.1	394.1	413.5	424.3
35°	368.3	351.0	318.7	284.3	264.9	258.4	273.5	305.8	346.7	381.2	396.3
37.5°	338.1	314.4	269.2	228.3	206.8	202.4	217.5	252.0	299.4	346.7	366.1
40°	303.7	275.7	221.8	178.8	161.5	157.2	170.1	204.6	254.1	308.0	338.1
42.5°	269.2	234.7	178.8	142.1	124.9	124.9	142.1	168.0	213.2	271.4	308.0
45°	234.7	198.1	146.4	114.1	103.4	105.5	116.3	142.1	178.8	239.1	273.5
47.5°	202.4	170.1	120.6	94.8	86.1	88.3	101.2	122.8	152.9	206.8	243.4
50°	174.4	144.3	105.5	79.7	73.2	77.5	90.5	109.8	135.7	183.1	213.2
52.5°	157.2	129.2	96.9	68.9	64.6	68.9	81.8	99.1	122.8	161.5	191.7
55°	148.6	127.1	96.9	62.5	56.0	60.3	73.2	90.5	109.8	146.4	172.3
57.5°	146.4	131.4	103.4	56.0	47.4	51.7	64.6	81.8	101.2	133.5	155.1
60°	137.8	124.9	101.2	45.2	36.6	43.1	53.8	71.1	92.6	124.9	144.3
62.5°	120.6	109.8	88.3	36.6	28.0	32.3	45.2	62.5	84.0	114.1	135.7
65°	99.1	88.3	68.9	23.7	17.2	21.5	34.5	53.8	73.2	103.4	122.8
67.5°	73.2	62.5	47.4	15.1	8.6	15.1	28.0	45.2	66.8	92.6	112.0
70°	45.2	36.6	25.8	8.6	6.5	12.9	25.8	43.1	60.3	86.1	105.5
72.5°	25.8	17.2	10.8	4.3	6.5	12.9	25.8	43.1	58.1	81.8	99.1
75°	19.4	10.8	4.3	2.2	4.3	10.8	23.7	38.8	56.0	77.5	94.8
77.5°	12.9	6.5	2.2	0.0	2.2	8.6	21.5	36.6	51.7	73.2	90.5
80°	2.2	0.0	0.0	0.0	0.0	6.5	19.4	32.3	47.4	64.6	79.7
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.1	28.0	40.9	53.8	64.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.6	21.5	32.3	40.9	45.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	21.5	25.8	30.2
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	880.8	893.8	893.8	902.4	913.2	932.5	943.3	958.4	969.1	979.9	984.2
5°	814.1	816.2	818.4	822.7	835.6	857.2	876.5	900.2	928.2	949.8	962.7
7.5°	758.1	758.1	758.1	764.5	777.5	792.5	811.9	844.2	876.5	902.4	923.9
10°	710.7	717.2	719.3	730.1	745.2	764.5	786.1	814.1	850.7	885.2	923.9
12.5°	680.6	687.0	697.8	708.6	723.6	745.2	768.9	805.5	880.8	951.9	1033.8
15°	652.6	661.2	674.1	689.2	706.4	730.1	755.9	831.3	1007.9	1141.4	1270.7
17.5°	622.4	635.3	652.6	667.6	689.2	715.0	747.3	893.8	1240.5	1462.3	1682.0
20°	583.6	600.9	620.3	643.9	669.8	699.9	747.3	1023.0	1576.5	1895.2	2186.0
22.5°	547.0	564.3	587.9	618.1	648.3	678.4	758.1	1219.0	2009.4	2412.1	2780.4
25°	516.9	538.4	562.1	587.9	622.4	656.9	783.9	1494.6	2530.5	3049.6	3310.2
27.5°	488.9	514.7	538.4	560.0	590.1	628.9	842.1	1862.9	3146.5	3674.1	3878.7
30°	460.9	491.0	514.7	536.3	566.4	607.3	930.4	2332.4	3831.4	4343.9	4365.5
32.5°	437.2	465.2	493.2	514.7	542.7	590.1	1053.1	2881.6	4533.5	5028.8	4826.3
35°	411.3	443.7	469.5	493.2	523.3	575.0	1195.3	3473.9	5242.0	5657.7	5285.1
37.5°	385.5	422.1	454.4	471.7	501.8	560.0	1298.7	4092.0	5965.6	6271.5	5687.8
40°	361.8	402.7	439.3	456.6	471.7	540.6	1313.7	4725.1	6700.0	6876.6	6066.9
42.5°	336.0	381.2	413.5	437.2	450.1	527.6	1223.3	5259.2	7316.0	7479.7	6562.2
45°	308.0	361.8	387.7	404.9	430.7	536.3	1107.0	5672.7	8020.2	8302.4	7378.4
47.5°	280.0	340.3	361.8	374.7	409.2	587.9	1063.9	5948.4	9181.0	9766.8	8754.6
50°	254.1	320.9	344.6	342.4	404.9	654.7	1111.3	6157.3	10925.5	11614.7	10641.2
52.5°	226.1	299.4	327.4	318.7	437.2	706.4	1206.0	6323.1	12267.2	13781.3	13176.1
55°	202.4	275.7	301.5	299.4	497.5	745.2	1279.3	5448.8	12822.9	15794.9	16031.8
57.5°	185.2	249.8	271.4	308.0	536.3	745.2	1479.6	3868.0	12833.7	17276.6	19822.3
60°	170.1	226.1	241.2	338.1	521.2	706.4	1464.5	2369.0	11827.9	17175.4	21838.1
62.5°	157.2	204.6	224.0	346.7	460.9	699.9	1322.3	1468.8	10087.7	15868.2	20375.8
65°	146.4	187.4	215.4	318.7	417.8	749.5	891.6	1055.3	8181.7	14377.8	18698.1
67.5°	135.7	172.3	228.3	260.6	379.0	669.8	643.9	749.5	6422.2	12743.2	17158.2
70°	127.1	163.7	241.2	213.2	331.7	523.3	456.6	568.6	4916.8	10632.6	14989.5
72.5°	120.6	152.9	202.4	168.0	269.2	404.9	318.7	413.5	3213.3	8300.2	12219.9
75°	114.1	140.0	148.6	135.7	200.3	264.9	241.2	277.8	1914.6	6066.9	9271.5
77.5°	112.0	131.4	120.6	109.8	135.7	157.2	183.1	187.4	934.7	3034.5	4858.7
80°	99.1	118.5	103.4	90.5	92.6	103.4	135.7	124.9	213.2	771.0	1296.5
82.5°	77.5	92.6	86.1	75.4	75.4	75.4	90.5	84.0	68.9	346.7	585.8
85°	53.8	64.6	64.6	60.3	58.1	58.1	56.0	53.8	19.4	21.5	32.3
87.5°	36.6	45.2	47.4	45.2	38.8	34.5	30.2	25.8	8.6	0.0	4.3
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-SA5D-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	999.3	1005.8	1005.8	997.1	990.7	973.5	956.2	939.0	934.7	932.5
5°	999.3	1025.1	1038.1	1035.9	1020.8	992.8	956.2	917.5	906.7	902.4
7.5°	984.2	1033.8	1072.5	1079.0	1051.0	1001.5	934.7	876.5	861.5	855.0
10°	1018.7	1115.6	1193.1	1203.9	1171.6	1074.7	967.0	867.9	844.2	829.2
12.5°	1203.9	1363.3	1458.0	1503.3	1440.8	1318.0	1139.3	962.7	908.8	885.2
15°	1578.6	1804.8	1985.7	1985.7	1927.5	1710.0	1483.9	1197.4	1124.2	1059.6
17.5°	2058.9	2343.2	2502.6	2485.3	2397.0	2244.1	1972.8	1561.4	1412.8	1346.0
20°	2605.9	2776.1	2812.7	2801.9	2763.1	2674.8	2487.5	2046.0	1845.7	1742.3
22.5°	3079.7	3034.5	2980.7	2937.6	2926.8	2952.7	2926.8	2586.5	2429.3	2246.3
25°	3400.6	3144.3	2982.8	2905.3	2941.9	3090.5	3252.0	3125.0	3000.0	2810.5
27.5°	3575.1	3131.4	2898.8	2819.1	2881.6	3092.7	3443.7	3659.1	3529.8	3439.4
30°	3669.8	3120.7	2845.0	2767.5	2862.2	3127.1	3577.2	4158.7	4163.0	4018.7
32.5°	3805.5	3189.6	2855.8	2784.7	2911.7	3230.5	3745.2	4667.0	4791.9	4714.4
35°	3958.4	3295.1	2905.3	2840.7	2997.9	3368.3	3932.6	5179.5	5440.1	5414.3
37.5°	4102.7	3413.5	3021.6	2959.1	3129.3	3486.8	4113.5	5683.5	6045.3	6135.8
40°	4253.5	3579.4	3379.1	3439.4	3534.2	3674.1	4275.0	6120.7	6710.8	6846.5
42.5°	4608.8	4154.4	4460.2	4574.4	4587.3	4298.7	4628.2	6680.6	7365.5	7527.0
45°	5401.4	5177.4	6053.9	6215.5	6131.5	5257.1	5478.9	7488.3	8280.8	8362.7
47.5°	6402.8	6506.2	8235.6	8793.4	8289.4	6387.8	6510.5	9187.5	9956.4	9926.2
50°	7570.1	8059.0	10712.3	12028.2	10822.1	7856.5	7699.3	11276.6	12209.1	12116.5
52.5°	8950.6	9863.8	13688.7	15558.0	14416.6	9508.4	9443.8	14044.0	14612.6	14317.5
55°	10688.6	11606.1	17113.0	19725.4	18101.5	11524.2	11746.1	17253.0	17362.8	16426.0
57.5°	13281.6	13878.2	21148.9	24504.3	21947.9	14263.7	15872.5	21523.7	20209.9	18435.3
60°	17989.5	16800.7	25049.2	29393.1	26039.9	18116.6	21314.8	24054.2	21157.5	18711.0
62.5°	19628.4	19281.7	27491.5	31460.6	28792.3	21280.3	22729.7	22619.9	19930.0	17668.6
65°	17145.3	18663.6	27054.3	30368.7	28439.1	20759.1	20397.3	21036.9	18547.3	16085.7
67.5°	15838.0	17212.0	25398.1	27355.8	26481.4	18991.0	18181.2	18006.7	15571.0	13611.1
70°	14520.0	15881.1	22996.8	23240.1	22833.1	16109.4	15045.5	13876.0	11638.4	9934.8
72.5°	12934.9	13684.3	19665.1	18510.7	18049.8	12652.7	12428.8	10449.6	8724.5	7262.1
75°	11280.9	11063.3	15331.9	12704.4	13049.0	9844.4	10496.9	7673.5	6392.1	5226.9
77.5°	8205.4	8043.9	10268.6	7716.6	8545.7	6448.1	5793.3	3062.5	2916.1	2515.5
80°	4578.7	5519.8	5545.7	4324.5	5394.9	4203.9	1449.4	101.2	64.6	94.8
82.5°	2127.8	2373.3	3006.5	2005.1	3077.6	2082.6	299.4	0.0	0.0	0.0
85°	689.2	1007.9	844.2	295.1	745.2	704.2	49.5	0.0	0.0	0.0
87.5°	40.9	84.0	21.5	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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