

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: P640685

Luminaire Tested: GWS-SA5E-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640685  
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-SA5E-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

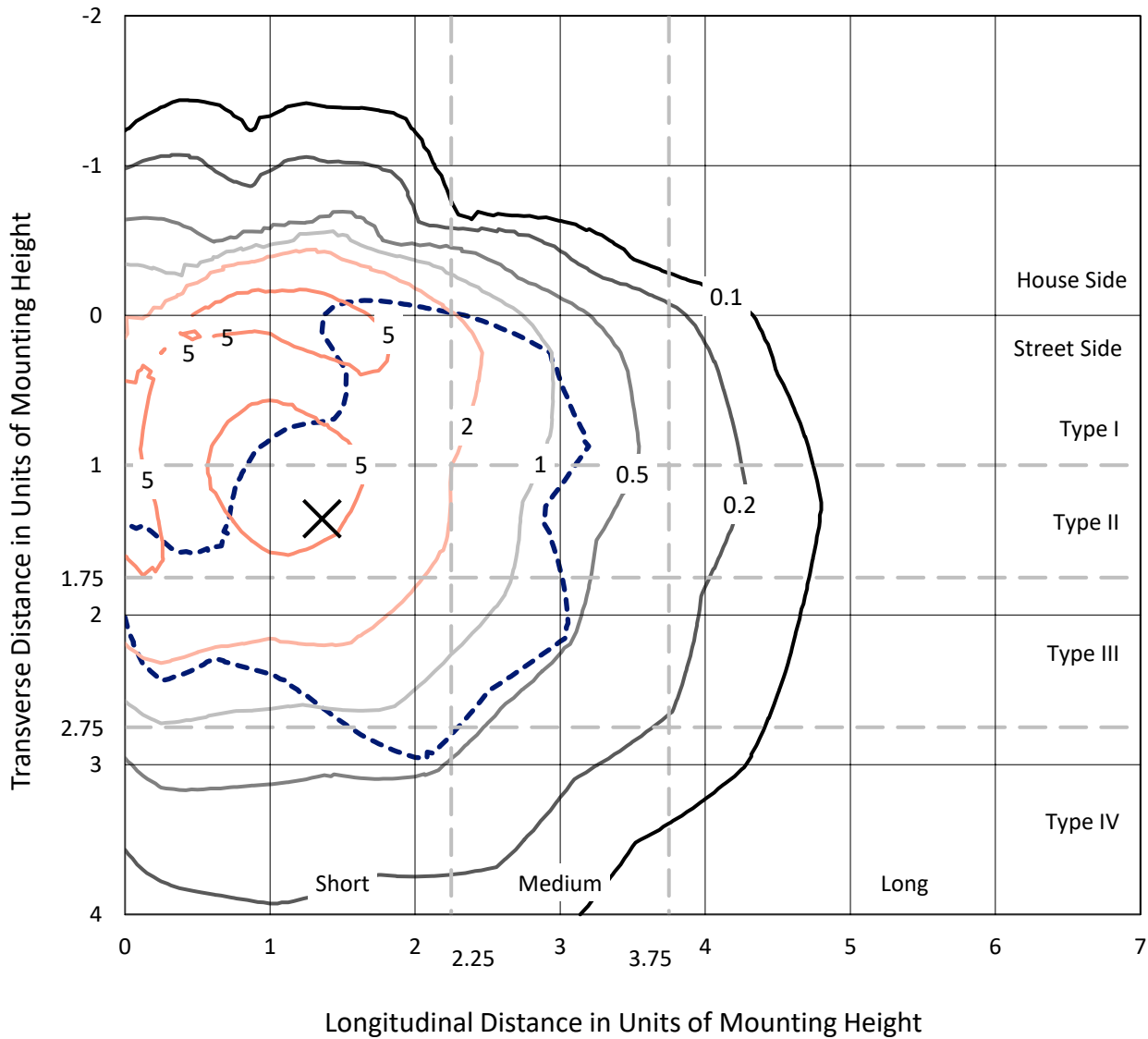
Lumens per Lamp: N/A  
Luminaire Lumens: 22978.2 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

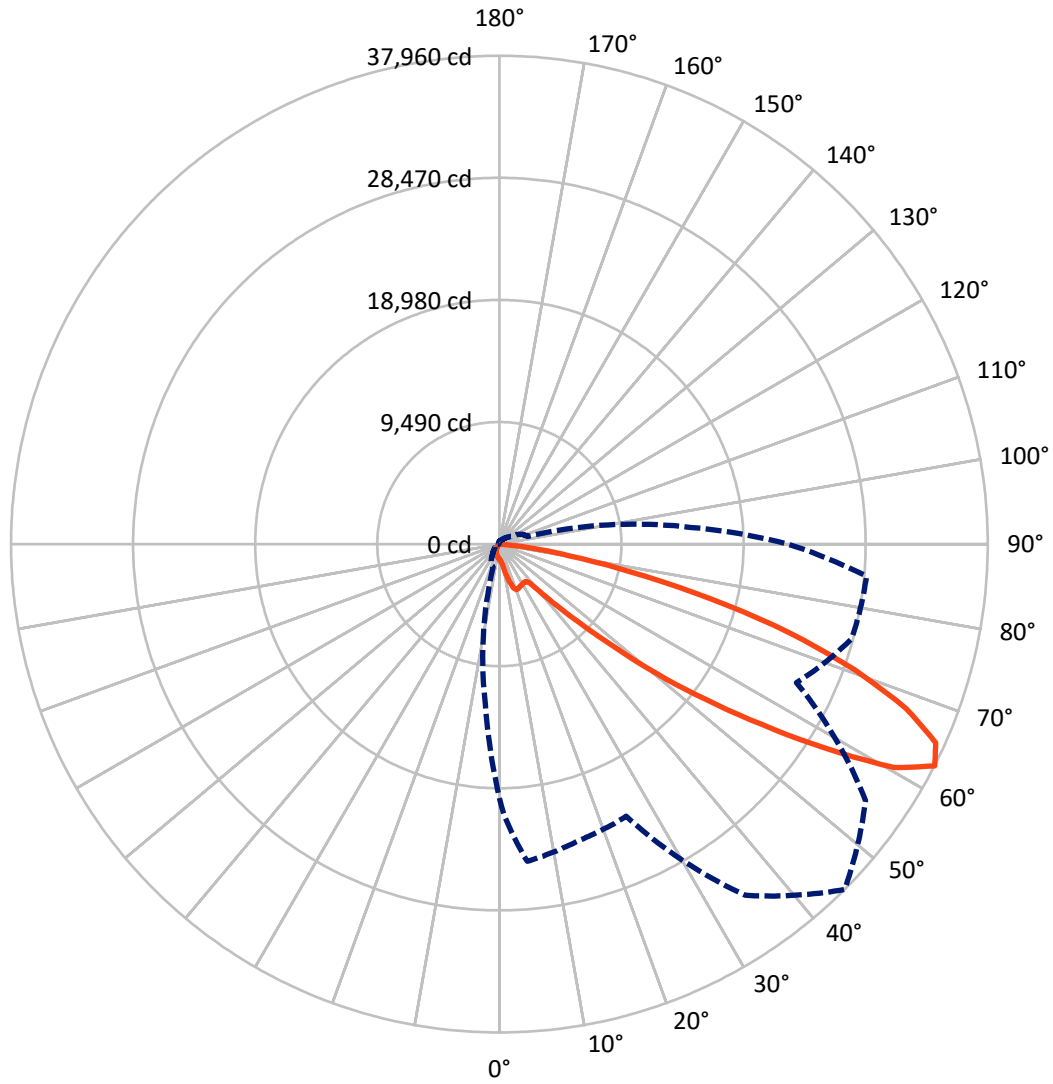
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	2835.5	0.0	2835.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20142.7	0.0	20142.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	22978.2	0.0	22978.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	0.5
10°-20°	400.6	1.7
20°-30°	870.9	3.8
30°-40°	1429.4	6.2
40°-50°	2627.7	11.4
50°-60°	5643.1	24.6
60°-70°	7579.6	33.0
70°-80°	3946.8	17.2
80°-90°	374.2	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°	22978.2	100.0
0°-180°	22978.2	100.0

**Coefficient of Utilization**



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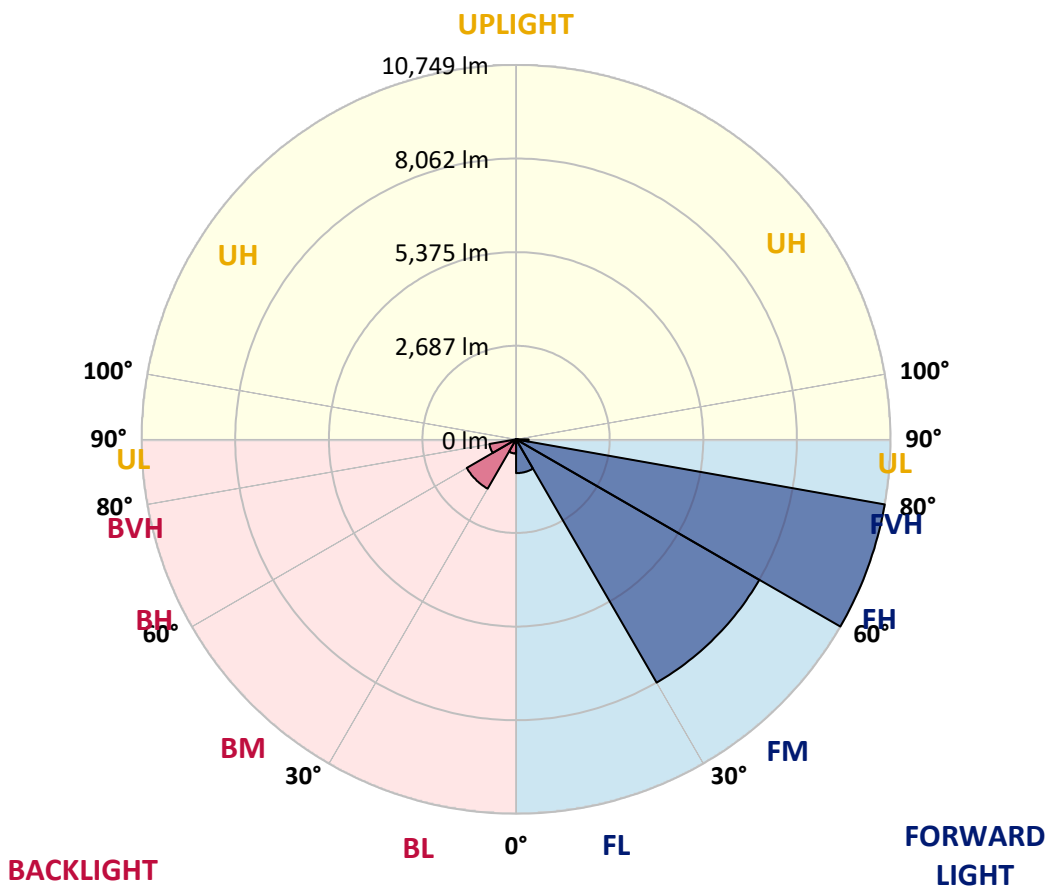
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.7	4.2			
FM (30°-60°)	8065.1	35.1			
FH (60°-80°)	10749.4	46.8			G4/12000
FVH (80°-90°)	357.5	1.6			G3/500
BL (0°-30°)	406.7	1.8	B1/500		
BM (30°-60°)	1635.1	7.1	B2/2500		
BH (60°-80°)	776.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	16.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4
2.5°	1218.3	1223.6	1228.9	1247.5	1260.7	1271.4	1274.0	1266.0	1247.5	1228.9	1202.3
5°	1181.1	1186.4	1205.0	1255.4	1305.9	1345.7	1358.9	1351.0	1305.9	1247.5	1186.4
7.5°	1178.5	1189.1	1234.2	1340.4	1449.2	1531.5	1552.7	1534.1	1449.2	1332.4	1207.7
10°	1274.0	1292.6	1358.9	1550.0	1749.1	1895.1	1953.5	1873.9	1738.5	1526.2	1321.8
12.5°	1523.5	1555.4	1682.8	1961.4	2269.3	2463.1	2542.7	2444.5	2232.2	1924.3	1600.5
15°	1916.3	1964.1	2155.2	2571.9	2935.5	3108.1	3134.6	3078.9	2832.0	2492.3	2057.0
17.5°	2471.1	2540.1	2837.3	3262.0	3524.8	3585.8	3577.8	3519.5	3339.0	3105.4	2694.0
20°	3134.6	3216.9	3508.8	3859.2	3885.7	3814.1	3774.3	3739.8	3678.7	3638.9	3317.7
22.5°	3803.5	3904.3	4209.5	4297.1	4058.3	3851.2	3753.0	3779.6	3869.8	4066.2	3936.2
25°	4469.7	4565.2	4851.9	4615.6	4137.9	3792.8	3668.1	3731.8	3946.8	4371.5	4538.7
27.5°	5247.3	5319.0	5488.9	4833.3	4151.2	3745.1	3623.0	3721.2	3983.9	4562.6	5199.6
30°	6056.9	6099.3	6017.0	4891.7	4106.0	3673.4	3577.8	3721.2	4047.6	4690.0	5695.9
32.5°	6651.4	6659.4	6391.3	4897.0	4082.1	3615.0	3535.4	3705.2	4108.7	4796.1	6176.3
35°	7264.5	7224.7	6749.6	4976.6	4145.8	3636.2	3567.2	3750.4	4204.2	4920.9	6598.3
37.5°	7885.6	7813.9	7150.4	5106.7	4310.4	3867.2	3824.7	3981.3	4358.2	5093.4	7062.8
40°	8522.6	8424.4	7567.1	5303.1	4676.7	4652.8	4798.8	4780.2	4780.2	5313.7	7540.6
42.5°	9300.3	9186.2	8182.9	5857.8	5531.3	6064.8	6463.0	6216.1	5759.6	5820.6	8161.6
45°	10327.5	10229.2	9249.9	6919.5	6871.7	8097.9	8634.1	8145.7	7009.7	6991.1	9199.4
47.5°	11970.4	11951.8	10951.2	8151.0	8512.0	10685.8	11720.9	10781.3	8435.0	8230.6	11163.5
50°	14279.5	14223.8	13071.9	9594.9	10462.8	13892.0	15739.3	14173.4	10157.6	9677.2	13793.8
52.5°	16880.6	16939.0	16041.9	11171.5	12535.7	17459.3	20031.2	18059.1	12028.8	11516.5	17103.6
55°	19330.5	19664.9	19428.7	13016.1	14560.9	21398.1	24745.0	22321.7	14345.9	13923.9	20814.2
57.5°	21246.8	22189.0	23845.2	15696.9	16941.7	26005.8	30008.3	26942.7	17050.5	17833.5	25865.1
60°	21353.0	22600.4	26446.3	21305.2	20004.6	29957.8	35263.6	31457.5	21302.5	24471.6	29822.5
62.5°	19752.5	21090.2	24753.0	23853.2	23340.9	33320.7	37960.2	34748.7	25485.5	28360.0	28649.3
65°	17921.1	19272.1	22863.2	20962.8	22953.4	33177.4	37275.4	34825.6	25865.1	25716.4	26549.9
67.5°	15152.8	16365.7	19617.1	18555.4	21156.5	31576.9	34111.6	32630.6	23829.3	24052.3	24423.9
70°	11060.0	12227.9	15245.7	15298.8	18475.8	28691.8	29310.2	29105.8	21944.8	22181.1	21119.4
72.5°	7989.1	8973.8	11577.6	12546.4	14749.3	24060.2	23632.9	24421.2	18828.8	19755.1	16962.9
75°	5743.7	6481.5	8493.4	10914.0	11691.7	17868.0	16917.8	18913.8	15107.6	17010.7	12753.4
77.5°	2330.4	2590.5	3341.6	7352.1	7683.9	12020.8	10356.6	13738.1	10770.7	11176.8	6181.6
80°	95.6	106.2	138.0	3795.5	5268.6	6762.9	5541.9	7344.1	7113.2	4501.5	1459.8
82.5°	10.6	10.6	23.9	1093.5	2306.5	3731.8	2611.7	4230.8	3601.7	1908.4	663.5
85°	2.7	2.7	5.3	124.7	541.5	597.2	353.0	1297.9	1674.8	780.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	23.9	26.5	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°	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4
2.5°	1202.3	1189.1	1173.2	1157.2	1149.3	1128.0	1120.1	1114.8	1109.5	1112.1	1112.1
5°	1162.5	1133.3	1098.8	1064.3	1045.8	1024.5	1013.9	1008.6	1011.2	1021.9	1021.9
7.5°	1157.2	1101.5	1027.2	982.1	960.8	944.9	934.3	929.0	931.6	944.9	950.2
10°	1244.8	1146.6	1013.9	936.9	913.0	897.1	886.5	878.5	873.2	883.8	886.5
12.5°	1433.3	1297.9	1077.6	931.6	889.2	867.9	860.0	844.0	836.1	841.4	844.0
15°	1823.4	1589.9	1205.0	952.9	867.9	844.0	830.8	817.5	804.2	801.6	804.2
17.5°	2333.0	1998.6	1398.8	1003.3	852.0	822.8	804.2	785.6	767.1	764.4	761.8
20°	2964.7	2500.2	1669.5	1082.9	838.7	804.2	777.7	751.1	727.2	719.3	719.3
22.5°	3540.7	3105.4	2017.2	1181.1	820.1	777.7	745.8	714.0	687.4	674.2	671.5
25°	4244.0	3747.7	2433.9	1295.2	793.6	743.2	708.7	676.8	650.3	634.4	629.0
27.5°	4952.7	4424.5	2906.3	1443.9	761.8	708.7	676.8	647.6	618.4	599.8	594.5
30°	5640.2	5154.4	3437.2	1629.7	737.9	674.2	647.6	618.4	591.9	562.7	554.7
32.5°	6378.0	5900.3	4031.7	1836.7	719.3	650.3	621.1	594.5	560.0	533.5	520.2
35°	7089.3	6670.0	4687.3	2038.4	700.7	629.0	597.2	570.7	533.5	504.3	485.7
37.5°	7806.0	7453.0	5372.1	2160.5	674.2	599.8	570.7	549.4	507.0	472.4	451.2
40°	8565.1	8262.5	6112.6	2110.1	650.3	568.0	552.1	528.2	480.4	440.6	414.1
42.5°	9398.5	9034.9	6866.4	1916.3	629.0	541.5	525.5	501.6	456.5	408.7	374.2
45°	10446.9	9881.5	7484.8	1624.4	639.7	514.9	483.1	477.8	435.3	374.2	331.8
47.5°	12249.1	11182.1	7965.2	1435.9	711.3	485.7	448.6	461.8	416.7	339.7	292.0
50°	15006.8	13337.3	8413.8	1422.6	820.1	472.4	416.7	451.2	398.1	305.2	257.5
52.5°	17634.4	15527.0	8700.4	1539.4	915.7	507.0	384.9	437.9	384.9	281.3	233.6
55°	20148.0	16790.4	8188.2	1624.4	1005.9	610.5	361.0	416.7	368.9	268.1	225.6
57.5°	22857.9	17353.1	6447.0	1796.9	1069.6	698.1	366.3	384.9	347.7	260.1	223.0
60°	23667.4	16633.8	3891.0	2022.5	1035.1	724.6	406.1	342.4	318.5	244.2	215.0
62.5°	22409.3	14927.2	2295.9	1842.0	1005.9	684.8	464.5	315.8	289.3	223.0	199.1
65°	20527.5	12610.1	1497.0	1555.4	1067.0	610.5	493.7	302.6	262.8	201.7	175.2
67.5°	18377.6	10157.6	1048.4	918.3	984.7	549.4	416.7	299.9	236.2	169.9	143.3
70°	15479.2	7606.9	737.9	607.8	820.1	488.4	323.8	292.0	207.0	138.0	111.5
72.5°	11959.8	4761.6	549.4	392.8	583.9	398.1	257.5	246.8	167.2	114.1	84.9
75°	8819.9	2715.2	387.5	284.0	384.9	302.6	191.1	175.2	143.3	108.8	77.0
77.5°	4605.0	1358.9	241.5	217.6	220.3	188.4	138.0	127.4	132.7	108.8	71.7
80°	883.8	270.7	146.0	159.3	119.4	119.4	100.9	106.2	116.8	87.6	61.0
82.5°	368.9	58.4	79.6	90.2	74.3	82.3	82.3	84.9	82.3	63.7	45.1
85°	0.0	0.0	34.5	37.2	50.4	50.4	42.5	42.5	42.5	37.2	26.5
87.5°	0.0	0.0	0.0	0.0	2.7	8.0	15.9	18.6	21.2	15.9	10.6
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4
2.5°	1109.5	1104.1	1112.1	1117.4	1122.7	1122.7	1117.4	1112.1	1104.1	1112.1	1104.1
5°	1024.5	1032.5	1045.8	1051.1	1056.4	1045.8	1040.4	1024.5	1011.2	1013.9	1008.6
7.5°	958.2	966.1	982.1	992.7	992.7	987.4	971.4	955.5	934.3	934.3	931.6
10°	897.1	907.7	926.3	939.6	944.9	939.6	923.7	902.4	883.8	883.8	875.9
12.5°	846.7	860.0	881.2	899.8	905.1	899.8	883.8	862.6	841.4	841.4	836.1
15°	804.2	820.1	844.0	865.3	873.2	865.3	846.7	820.1	798.9	801.6	793.6
17.5°	764.4	777.7	809.5	833.4	841.4	833.4	809.5	775.0	753.8	759.1	753.8
20°	719.3	735.2	767.1	793.6	801.6	793.6	767.1	729.9	708.7	708.7	711.3
22.5°	671.5	687.4	719.3	737.9	748.5	740.5	714.0	679.5	658.2	658.2	660.9
25°	629.0	637.0	660.9	679.5	682.1	674.2	652.9	626.4	610.5	618.4	621.1
27.5°	589.2	589.2	599.8	610.5	607.8	599.8	591.9	570.7	568.0	576.0	583.9
30°	546.8	533.5	528.2	520.2	517.6	514.9	522.9	522.9	528.2	538.8	546.8
32.5°	509.6	483.1	459.2	435.3	422.0	432.6	453.9	472.4	491.0	507.0	514.9
35°	467.1	424.7	384.9	353.0	331.8	347.7	382.2	416.7	448.6	469.8	483.1
37.5°	424.7	363.6	315.8	276.0	260.1	273.4	310.5	358.3	406.1	432.6	451.2
40°	379.5	302.6	246.8	215.0	199.1	212.3	249.5	297.3	361.0	395.5	419.4
42.5°	334.4	249.5	199.1	167.2	159.3	167.2	196.4	244.2	313.2	355.7	387.5
45°	289.3	207.0	159.3	135.4	127.4	135.4	159.3	199.1	268.1	315.8	353.0
47.5°	249.5	175.2	132.7	111.5	106.2	114.1	132.7	167.2	225.6	273.4	315.8
50°	217.6	153.9	114.1	95.6	90.2	98.2	114.1	140.7	191.1	233.6	278.7
52.5°	196.4	143.3	100.9	82.3	79.6	84.9	98.2	119.4	161.9	199.1	241.5
55°	191.1	143.3	92.9	74.3	71.7	77.0	87.6	103.5	140.7	172.5	209.7
57.5°	196.4	153.9	87.6	63.7	61.0	66.4	77.0	90.2	122.1	148.6	183.1
60°	196.4	156.6	77.0	50.4	47.8	53.1	63.7	79.6	108.8	130.1	159.3
62.5°	177.8	143.3	63.7	39.8	34.5	39.8	53.1	66.4	95.6	116.8	140.7
65°	153.9	122.1	53.1	29.2	23.9	29.2	42.5	55.7	82.3	100.9	127.4
67.5°	124.7	92.9	39.8	21.2	15.9	21.2	31.9	45.1	69.0	87.6	114.1
70°	92.9	66.4	31.9	18.6	15.9	18.6	29.2	42.5	61.0	79.6	106.2
72.5°	69.0	45.1	26.5	18.6	13.3	18.6	26.5	39.8	58.4	77.0	100.9
75°	58.4	37.2	23.9	15.9	13.3	15.9	23.9	37.2	53.1	71.7	95.6
77.5°	55.7	34.5	21.2	13.3	10.6	13.3	21.2	31.9	47.8	66.4	92.9
80°	47.8	29.2	18.6	10.6	8.0	10.6	18.6	26.5	37.2	50.4	71.7
82.5°	37.2	23.9	13.3	5.3	2.7	5.3	13.3	15.9	23.9	29.2	42.5
85°	23.9	13.3	5.3	0.0	0.0	0.0	5.3	10.6	10.6	13.3	21.2
87.5°	10.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.3	8.0
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-SA5E-735-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4	1194.4
2.5°	1120.1	1122.7	1128.0	1136.0	1154.6	1170.5	1186.4	1207.7	1218.3	1218.3
5°	1013.9	1016.6	1019.2	1029.8	1056.4	1077.6	1112.1	1154.6	1175.8	1181.1
7.5°	931.6	936.9	942.2	950.2	976.7	1005.9	1051.1	1130.7	1170.5	1178.5
10°	883.8	891.8	902.4	918.3	942.2	974.1	1051.1	1194.4	1260.7	1274.0
12.5°	846.7	860.0	870.6	889.2	918.3	968.8	1122.7	1374.9	1491.7	1523.5
15°	809.5	825.5	841.4	860.0	891.8	987.4	1260.7	1698.7	1892.4	1916.3
17.5°	772.4	790.9	812.2	833.4	873.2	1032.5	1478.4	2147.2	2418.0	2471.1
20°	729.9	753.8	783.0	809.5	854.6	1104.1	1781.0	2680.7	3020.5	3134.6
22.5°	684.8	714.0	748.5	783.0	833.4	1191.7	2147.2	3254.0	3729.1	3803.5
25°	647.6	676.8	708.7	743.2	798.9	1297.9	2590.5	3965.4	4398.0	4469.7
27.5°	613.1	642.3	671.5	703.4	764.4	1435.9	3124.0	4721.8	5173.0	5247.3
30°	576.0	610.5	639.7	671.5	732.6	1605.8	3739.8	5560.5	5987.9	6056.9
32.5°	544.1	578.6	607.8	639.7	708.7	1791.6	4387.4	6303.7	6651.4	6651.4
35°	517.6	554.7	576.0	618.4	690.1	1911.0	5000.5	7012.4	7275.1	7264.5
37.5°	488.4	533.5	549.4	578.6	666.2	1924.3	5576.5	7760.9	7954.6	7885.6
40°	459.2	507.0	530.8	546.8	639.7	1815.5	6208.2	8448.3	8612.8	8522.6
42.5°	432.6	469.8	504.3	522.9	623.7	1624.4	6715.1	9183.5	9379.9	9300.3
45°	406.1	437.9	459.2	493.7	634.4	1491.7	7150.4	10040.8	10385.8	10327.5
47.5°	379.5	406.1	419.4	472.4	706.0	1430.6	7415.8	11367.9	12018.2	11970.4
50°	350.4	382.2	382.2	467.1	812.2	1451.8	7646.7	13289.5	14295.5	14279.5
52.5°	321.2	355.7	350.4	507.0	894.5	1550.0	7909.5	14985.6	16734.7	16880.6
55°	292.0	323.8	329.1	586.6	942.2	1635.0	6892.9	15699.5	18818.2	19330.5
57.5°	260.1	278.7	342.4	647.6	926.3	1881.8	4721.8	15829.6	20148.0	21246.8
60°	225.6	241.5	387.5	634.4	875.9	1738.5	2972.7	14661.7	19959.5	21353.0
62.5°	196.4	223.0	408.7	560.0	891.8	1507.6	1895.1	12495.9	18162.6	19752.5
65°	172.5	215.0	371.6	507.0	902.4	1021.9	1279.3	10165.5	16408.2	17921.1
67.5°	153.9	238.9	305.2	451.2	775.0	719.3	878.5	7898.9	13796.5	15152.8
70°	140.7	244.2	249.5	387.5	599.8	461.8	578.6	5316.3	9510.0	11060.0
72.5°	127.4	180.5	188.4	310.5	387.5	281.3	374.2	3041.7	6932.7	7989.1
75°	122.1	122.1	130.1	201.7	215.0	204.4	241.5	1815.5	4971.3	5743.7
77.5°	114.1	92.9	82.3	130.1	116.8	146.0	143.3	806.9	2155.2	2330.4
80°	90.2	66.4	55.7	82.3	79.6	98.2	84.9	66.4	98.2	95.6
82.5°	55.7	42.5	39.8	50.4	45.1	50.4	39.8	10.6	10.6	10.6
85°	26.5	23.9	21.2	21.2	23.9	21.2	15.9	5.3	2.7	2.7
87.5°	13.3	13.3	10.6	8.0	10.6	10.6	8.0	2.7	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)