

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: P642995

Luminaire Tested: GWS-SA6E-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642995  
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-SAGE-722-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

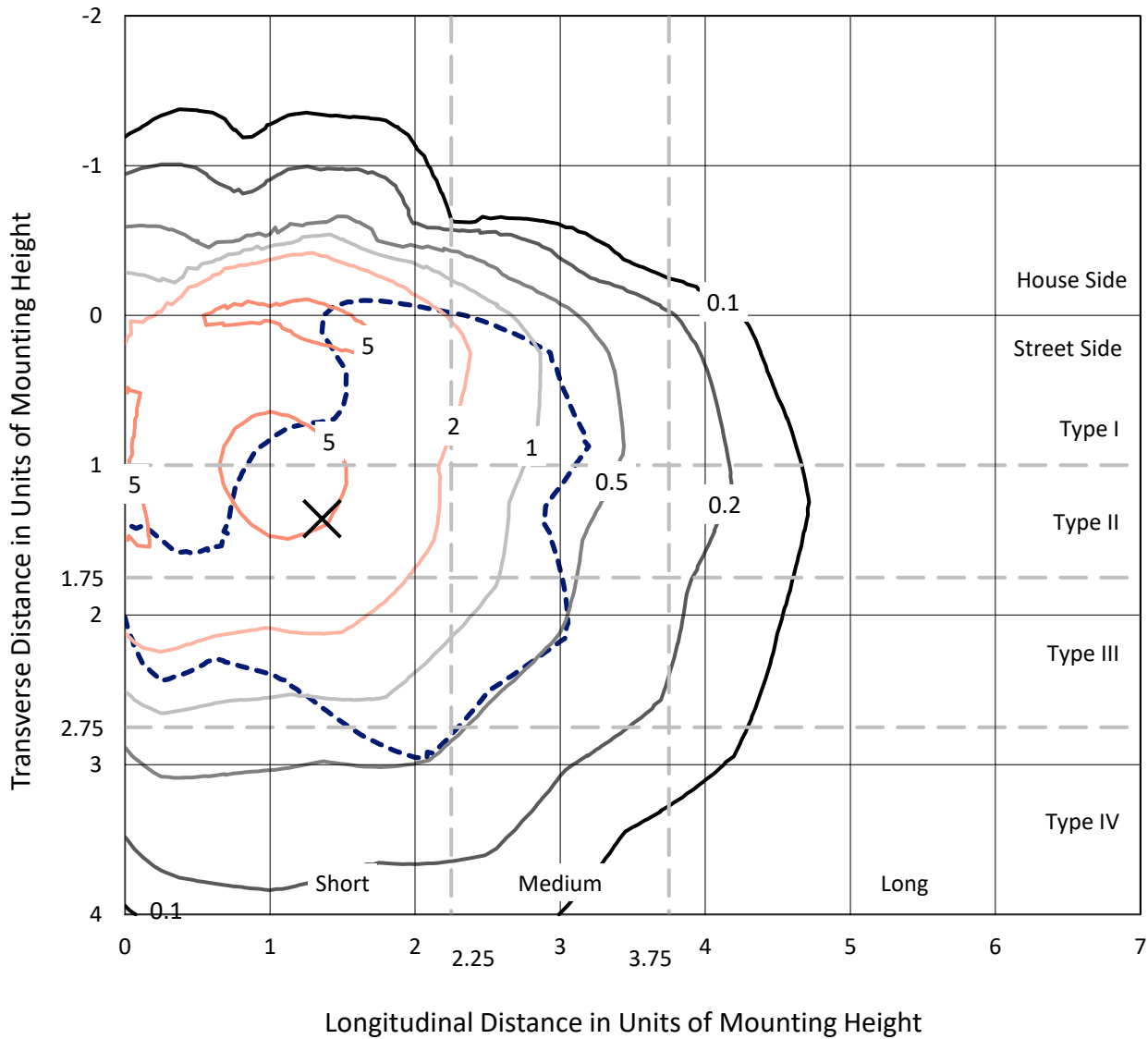
Lumens per Lamp: N/A  
Luminaire Lumens: 20463.1 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

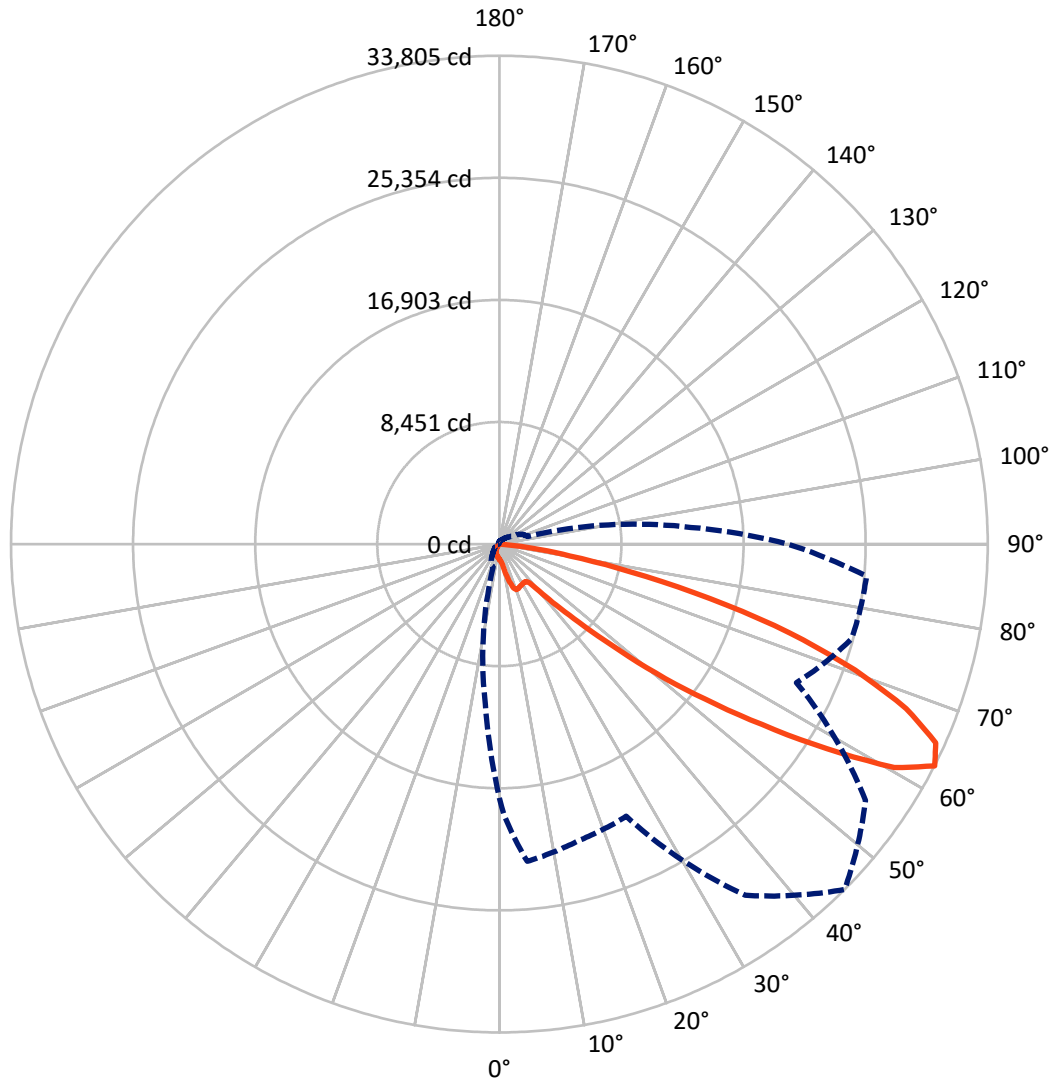
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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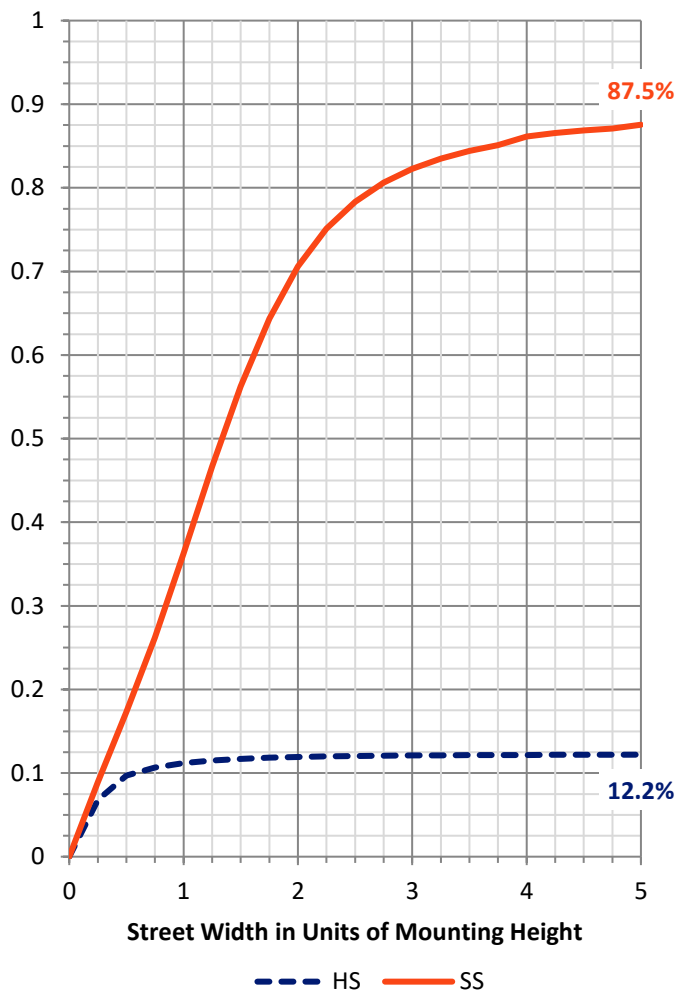
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2525.1	0.0	2525.1
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	17938.0	0.0	17938.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	20463.1	0.0	20463.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	0.5
10°-20°	356.8	1.7
20°-30°	775.5	3.8
30°-40°	1272.9	6.2
40°-50°	2340.1	11.4
50°-60°	5025.4	24.6
60°-70°	6749.9	33.0
70°-80°	3514.8	17.2
80°-90°	333.3	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°	20463.1	100.0
0°-180°	20463.1	100.0

**Coefficient of Utilization**

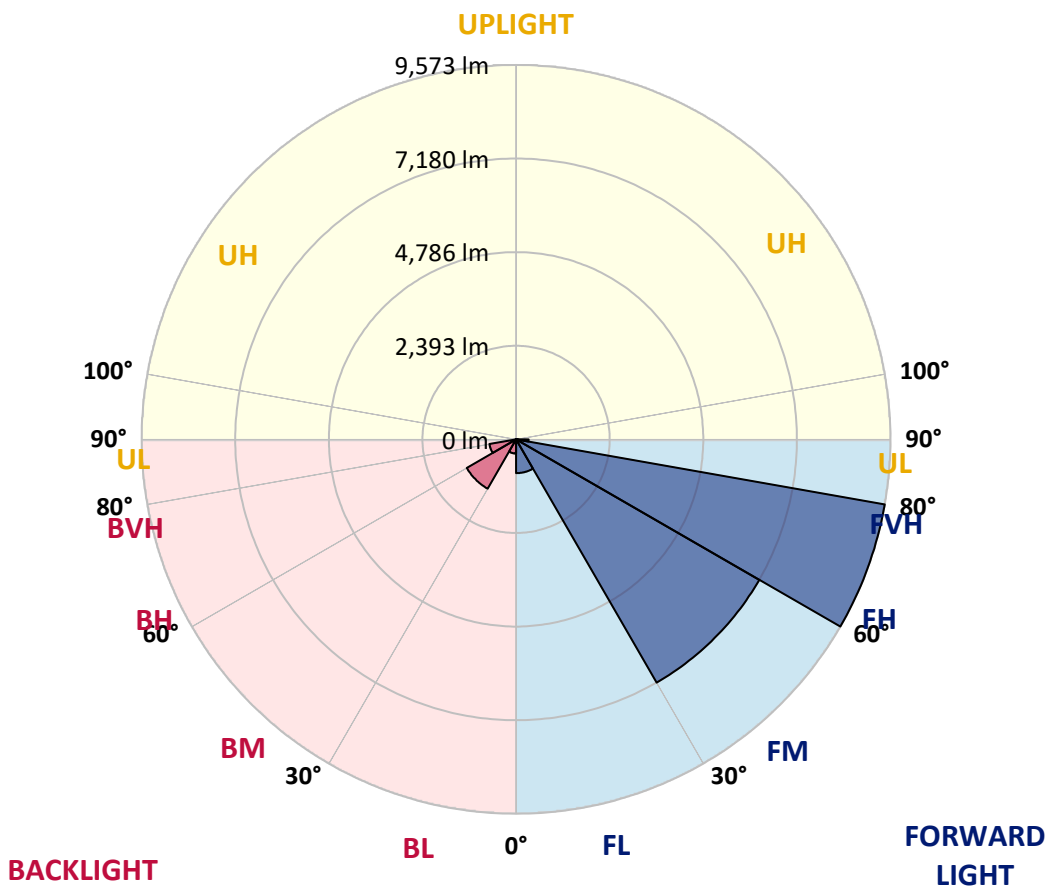


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.5	4.2			
FM (30°-60°)	7182.3	35.1			
FH (60°-80°)	9572.8	46.8			G4/12000
FVH (80°-90°)	318.4	1.6			G3/500
BL (0°-30°)	362.2	1.8	B1/500		
BM (30°-60°)	1456.1	7.1	B2/2500		
BH (60°-80°)	691.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	14.9	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°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	1084.9	1089.7	1094.4	1110.9	1122.7	1132.2	1134.6	1127.5	1110.9	1094.4	1070.7
5°	1051.8	1056.6	1073.1	1118.0	1162.9	1198.4	1210.2	1203.1	1162.9	1110.9	1056.6
7.5°	1049.5	1058.9	1099.1	1193.7	1290.6	1363.8	1382.7	1366.2	1290.6	1186.6	1075.5
10°	1134.6	1151.1	1210.2	1380.4	1557.7	1687.7	1739.7	1668.8	1548.2	1359.1	1177.1
12.5°	1356.7	1385.1	1498.6	1746.8	2020.9	2193.5	2264.4	2176.9	1987.8	1713.7	1425.3
15°	1706.6	1749.1	1919.3	2290.4	2614.2	2767.9	2791.5	2741.9	2522.0	2219.5	1831.8
17.5°	2200.6	2262.0	2526.8	2905.0	3139.0	3193.3	3186.2	3134.2	2973.5	2765.5	2399.1
20°	2791.5	2864.8	3124.8	3436.8	3460.4	3396.6	3361.1	3330.4	3276.1	3240.6	2954.6
22.5°	3387.1	3477.0	3748.8	3826.8	3614.1	3429.7	3342.2	3365.9	3446.2	3621.1	3505.3
25°	3980.4	4065.5	4320.8	4110.4	3685.0	3377.7	3266.6	3323.3	3514.8	3893.0	4041.9
27.5°	4673.0	4736.8	4888.1	4304.2	3696.8	3335.1	3226.4	3313.9	3547.9	4063.2	4630.4
30°	5393.9	5431.7	5358.4	4356.2	3656.6	3271.3	3186.2	3313.9	3604.6	4176.6	5072.4
32.5°	5923.4	5930.5	5691.7	4361.0	3635.3	3219.3	3148.4	3299.7	3659.0	4271.2	5500.3
35°	6469.4	6433.9	6010.8	4431.9	3692.1	3238.2	3176.8	3339.9	3744.1	4382.2	5876.1
37.5°	7022.5	6958.7	6367.7	4547.7	3838.6	3443.9	3406.1	3545.5	3881.2	4535.9	6289.7
40°	7589.8	7502.3	6738.8	4722.6	4164.8	4143.5	4273.5	4257.0	4257.0	4732.1	6715.2
42.5°	8282.3	8180.7	7287.2	5216.6	4925.9	5401.0	5755.5	5535.7	5129.2	5183.5	7268.3
45°	9197.1	9109.6	8237.4	6162.1	6119.5	7211.6	7689.0	7254.1	6242.5	6225.9	8192.5
47.5°	10660.2	10643.6	9752.5	7258.8	7580.3	9516.1	10438.0	9601.2	7511.8	7329.8	9941.6
50°	12716.6	12666.9	11641.1	8544.7	9317.6	12371.5	14016.6	12622.0	9045.8	8618.0	12284.0
52.5°	15033.0	15085.0	14286.0	9948.7	11163.6	15548.2	17838.6	16082.4	10712.2	10256.0	15231.5
55°	17214.6	17512.5	17302.1	11591.5	12967.1	19055.9	22036.5	19878.5	12775.7	12399.8	18535.9
57.5°	18921.2	19760.3	21235.2	13978.8	15087.3	23159.3	26723.7	23993.6	15184.2	15881.5	23034.0
60°	19015.7	20126.7	23551.6	18973.2	17815.0	26678.8	31403.8	28014.3	18970.8	21793.1	26558.2
62.5°	17590.5	18781.7	22043.6	21242.3	20786.1	29673.6	33805.3	30945.2	22696.0	25255.8	25513.5
65°	15959.5	17162.6	20360.7	18668.3	20441.0	29545.9	33195.4	31013.8	23034.0	22901.6	23643.8
67.5°	13494.2	14574.4	17469.9	16524.4	18840.8	28120.6	30377.9	29059.0	21221.1	21419.6	21750.5
70°	9849.4	10889.4	13576.9	13624.2	16453.5	25551.3	26102.0	25920.0	19542.8	19753.2	18807.7
72.5°	7114.7	7991.6	10310.3	11173.1	13134.9	21426.7	21046.1	21748.2	16767.9	17592.8	15106.2
75°	5115.0	5772.1	7563.8	9719.4	10412.0	15912.2	15066.1	16843.5	13454.0	15148.8	11357.4
77.5°	2075.3	2306.9	2975.9	6547.4	6842.8	10705.1	9223.1	12234.4	9591.8	9953.4	5505.0
80°	85.1	94.5	122.9	3380.1	4691.9	6022.6	4935.3	6540.3	6334.6	4008.8	1300.0
82.5°	9.5	9.5	21.3	973.8	2054.0	3323.3	2325.9	3767.7	3207.5	1699.5	590.9
85°	2.4	2.4	4.7	111.1	482.2	531.8	314.4	1155.8	1491.5	694.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	21.3	23.6	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°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	1070.7	1058.9	1044.7	1030.6	1023.5	1004.6	997.5	992.7	988.0	990.4	990.4
5°	1035.3	1009.3	978.6	947.8	931.3	912.4	902.9	898.2	900.6	910.0	910.0
7.5°	1030.6	980.9	914.7	874.6	855.6	841.5	832.0	827.3	829.6	841.5	846.2
10°	1108.6	1021.1	902.9	834.4	813.1	798.9	789.5	782.4	777.6	787.1	789.5
12.5°	1276.4	1155.8	959.7	829.6	791.8	772.9	765.8	751.6	744.6	749.3	751.6
15°	1623.8	1415.8	1073.1	848.6	772.9	751.6	739.8	728.0	716.2	713.8	716.2
17.5°	2077.7	1779.8	1245.7	893.5	758.7	732.7	716.2	699.6	683.1	680.7	678.4
20°	2640.2	2226.6	1486.8	964.4	746.9	716.2	692.6	668.9	647.6	640.6	640.6
22.5°	3153.1	2765.5	1796.4	1051.8	730.4	692.6	664.2	635.8	612.2	600.4	598.0
25°	3779.5	3337.5	2167.5	1153.5	706.7	661.8	631.1	602.7	579.1	564.9	560.2
27.5°	4410.6	3940.2	2588.2	1285.8	678.4	631.1	602.7	576.7	550.7	534.2	529.5
30°	5022.8	4590.3	3061.0	1451.3	657.1	600.4	576.7	550.7	527.1	501.1	494.0
32.5°	5679.9	5254.4	3590.4	1635.7	640.6	579.1	553.1	529.5	498.7	475.1	463.3
35°	6313.4	5939.9	4174.2	1815.3	624.0	560.2	531.8	508.2	475.1	449.1	432.6
37.5°	6951.6	6637.2	4784.1	1924.0	600.4	534.2	508.2	489.3	451.5	420.7	401.8
40°	7627.6	7358.1	5443.5	1879.1	579.1	505.8	491.6	470.4	427.8	392.4	368.7
42.5°	8369.8	8045.9	6114.8	1706.6	560.2	482.2	468.0	446.7	406.6	364.0	333.3
45°	9303.4	8800.0	6665.6	1446.6	569.6	458.6	430.2	425.5	387.6	333.3	295.5
47.5°	10908.4	9958.2	7093.4	1278.7	633.5	432.6	399.5	411.3	371.1	302.6	260.0
50°	13364.2	11877.5	7492.8	1266.9	730.4	420.7	371.1	401.8	354.6	271.8	229.3
52.5°	15704.2	13827.5	7748.1	1370.9	815.5	451.5	342.7	390.0	342.7	250.5	208.0
55°	17942.6	14952.6	7291.9	1446.6	895.8	543.6	321.5	371.1	328.6	238.7	200.9
57.5°	20356.0	15453.7	5741.4	1600.2	952.6	621.6	326.2	342.7	309.6	231.6	198.5
60°	21076.9	14813.1	3465.1	1801.1	921.8	645.3	361.6	304.9	283.6	217.5	191.5
62.5°	19956.5	13293.3	2044.6	1640.4	895.8	609.8	413.6	281.3	257.6	198.5	177.3
65°	18280.6	11229.8	1333.1	1385.1	950.2	543.6	439.6	269.5	234.0	179.6	156.0
67.5°	16366.1	9045.8	933.7	817.8	876.9	489.3	371.1	267.1	210.4	151.3	127.6
70°	13784.9	6774.3	657.1	541.3	730.4	434.9	288.4	260.0	184.4	122.9	99.3
72.5°	10650.7	4240.4	489.3	349.8	520.0	354.6	229.3	219.8	148.9	101.6	75.6
75°	7854.5	2418.0	345.1	252.9	342.7	269.5	170.2	156.0	127.6	96.9	68.5
77.5°	4101.0	1210.2	215.1	193.8	196.2	167.8	122.9	113.5	118.2	96.9	63.8
80°	787.1	241.1	130.0	141.8	106.4	106.4	89.8	94.5	104.0	78.0	54.4
82.5°	328.6	52.0	70.9	80.4	66.2	73.3	73.3	75.6	73.3	56.7	40.2
85°	0.0	0.0	30.7	33.1	44.9	44.9	37.8	37.8	37.8	33.1	23.6
87.5°	0.0	0.0	0.0	0.0	2.4	7.1	14.2	16.5	18.9	14.2	9.5
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°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	988.0	983.3	990.4	995.1	999.8	999.8	995.1	990.4	983.3	990.4	983.3
5°	912.4	919.5	931.3	936.0	940.7	931.3	926.6	912.4	900.6	902.9	898.2
7.5°	853.3	860.4	874.6	884.0	884.0	879.3	865.1	850.9	832.0	832.0	829.6
10°	798.9	808.4	824.9	836.7	841.5	836.7	822.6	803.6	787.1	787.1	780.0
12.5°	754.0	765.8	784.7	801.3	806.0	801.3	787.1	768.2	749.3	749.3	744.6
15°	716.2	730.4	751.6	770.6	777.6	770.6	754.0	730.4	711.5	713.8	706.7
17.5°	680.7	692.6	720.9	742.2	749.3	742.2	720.9	690.2	671.3	676.0	671.3
20°	640.6	654.7	683.1	706.7	713.8	706.7	683.1	650.0	631.1	631.1	633.5
22.5°	598.0	612.2	640.6	657.1	666.6	659.5	635.8	605.1	586.2	586.2	588.6
25°	560.2	567.3	588.6	605.1	607.5	600.4	581.5	557.8	543.6	550.7	553.1
27.5°	524.7	524.7	534.2	543.6	541.3	534.2	527.1	508.2	505.8	512.9	520.0
30°	486.9	475.1	470.4	463.3	460.9	458.6	465.6	465.6	470.4	479.8	486.9
32.5°	453.8	430.2	408.9	387.6	375.8	385.3	404.2	420.7	437.3	451.5	458.6
35°	416.0	378.2	342.7	314.4	295.5	309.6	340.4	371.1	399.5	418.4	430.2
37.5°	378.2	323.8	281.3	245.8	231.6	243.5	276.5	319.1	361.6	385.3	401.8
40°	338.0	269.5	219.8	191.5	177.3	189.1	222.2	264.7	321.5	352.2	373.5
42.5°	297.8	222.2	177.3	148.9	141.8	148.9	174.9	217.5	278.9	316.7	345.1
45°	257.6	184.4	141.8	120.5	113.5	120.5	141.8	177.3	238.7	281.3	314.4
47.5°	222.2	156.0	118.2	99.3	94.5	101.6	118.2	148.9	200.9	243.5	281.3
50°	193.8	137.1	101.6	85.1	80.4	87.5	101.6	125.3	170.2	208.0	248.2
52.5°	174.9	127.6	89.8	73.3	70.9	75.6	87.5	106.4	144.2	177.3	215.1
55°	170.2	127.6	82.7	66.2	63.8	68.5	78.0	92.2	125.3	153.6	186.7
57.5°	174.9	137.1	78.0	56.7	54.4	59.1	68.5	80.4	108.7	132.4	163.1
60°	174.9	139.5	68.5	44.9	42.5	47.3	56.7	70.9	96.9	115.8	141.8
62.5°	158.4	127.6	56.7	35.5	30.7	35.5	47.3	59.1	85.1	104.0	125.3
65°	137.1	108.7	47.3	26.0	21.3	26.0	37.8	49.6	73.3	89.8	113.5
67.5°	111.1	82.7	35.5	18.9	14.2	18.9	28.4	40.2	61.5	78.0	101.6
70°	82.7	59.1	28.4	16.5	14.2	16.5	26.0	37.8	54.4	70.9	94.5
72.5°	61.5	40.2	23.6	16.5	11.8	16.5	23.6	35.5	52.0	68.5	89.8
75°	52.0	33.1	21.3	14.2	11.8	14.2	21.3	33.1	47.3	63.8	85.1
77.5°	49.6	30.7	18.9	11.8	9.5	11.8	18.9	28.4	42.5	59.1	82.7
80°	42.5	26.0	16.5	9.5	7.1	9.5	16.5	23.6	33.1	44.9	63.8
82.5°	33.1	21.3	11.8	4.7	2.4	4.7	11.8	14.2	21.3	26.0	37.8
85°	21.3	11.8	4.7	0.0	0.0	0.0	4.7	9.5	9.5	11.8	18.9
87.5°	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.7	7.1
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: P642995  
 CATALOG NUMBER: GWS-SA6E-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7	1063.7
2.5°	997.5	999.8	1004.6	1011.7	1028.2	1042.4	1056.6	1075.5	1084.9	1084.9
5°	902.9	905.3	907.7	917.1	940.7	959.7	990.4	1028.2	1047.1	1051.8
7.5°	829.6	834.4	839.1	846.2	869.8	895.8	936.0	1006.9	1042.4	1049.5
10°	787.1	794.2	803.6	817.8	839.1	867.5	936.0	1063.7	1122.7	1134.6
12.5°	754.0	765.8	775.3	791.8	817.8	862.7	999.8	1224.4	1328.4	1356.7
15°	720.9	735.1	749.3	765.8	794.2	879.3	1122.7	1512.8	1685.3	1706.6
17.5°	687.8	704.4	723.3	742.2	777.6	919.5	1316.6	1912.2	2153.3	2200.6
20°	650.0	671.3	697.3	720.9	761.1	983.3	1586.0	2387.3	2689.9	2791.5
22.5°	609.8	635.8	666.6	697.3	742.2	1061.3	1912.2	2897.9	3321.0	3387.1
25°	576.7	602.7	631.1	661.8	711.5	1155.8	2306.9	3531.3	3916.6	3980.4
27.5°	546.0	572.0	598.0	626.4	680.7	1278.7	2782.0	4205.0	4606.8	4673.0
30°	512.9	543.6	569.6	598.0	652.4	1430.0	3330.4	4951.9	5332.4	5393.9
32.5°	484.6	515.3	541.3	569.6	631.1	1595.5	3907.2	5613.7	5923.4	5923.4
35°	460.9	494.0	512.9	550.7	614.6	1701.8	4453.2	6244.8	6478.8	6469.4
37.5°	434.9	475.1	489.3	515.3	593.3	1713.7	4966.1	6911.4	7083.9	7022.5
40°	408.9	451.5	472.7	486.9	569.6	1616.8	5528.6	7523.6	7670.1	7589.8
42.5°	385.3	418.4	449.1	465.6	555.5	1446.6	5980.1	8178.3	8353.2	8282.3
45°	361.6	390.0	408.9	439.6	564.9	1328.4	6367.7	8941.8	9249.1	9197.1
47.5°	338.0	361.6	373.5	420.7	628.7	1274.0	6604.1	10123.6	10702.7	10660.2
50°	312.0	340.4	340.4	416.0	723.3	1292.9	6809.7	11834.9	12730.7	12716.6
52.5°	286.0	316.7	312.0	451.5	796.6	1380.4	7043.7	13345.3	14903.0	15033.0
55°	260.0	288.4	293.1	522.4	839.1	1456.0	6138.5	13981.1	16758.4	17214.6
57.5°	231.6	248.2	304.9	576.7	824.9	1675.8	4205.0	14096.9	17942.6	18921.2
60°	200.9	215.1	345.1	564.9	780.0	1548.2	2647.3	13056.9	17774.8	19015.7
62.5°	174.9	198.5	364.0	498.7	794.2	1342.6	1687.7	11128.2	16174.6	17590.5
65°	153.6	191.5	330.9	451.5	803.6	910.0	1139.3	9052.9	14612.2	15959.5
67.5°	137.1	212.7	271.8	401.8	690.2	640.6	782.4	7034.3	12286.4	13494.2
70°	125.3	217.5	222.2	345.1	534.2	411.3	515.3	4734.4	8469.0	9849.4
72.5°	113.5	160.7	167.8	276.5	345.1	250.5	333.3	2708.8	6173.9	7114.7
75°	108.7	108.7	115.8	179.6	191.5	182.0	215.1	1616.8	4427.2	5115.0
77.5°	101.6	82.7	73.3	115.8	104.0	130.0	127.6	718.6	1919.3	2075.3
80°	80.4	59.1	49.6	73.3	70.9	87.5	75.6	59.1	87.5	85.1
82.5°	49.6	37.8	35.5	44.9	40.2	44.9	35.5	9.5	9.5	9.5
85°	23.6	21.3	18.9	18.9	21.3	18.9	14.2	4.7	2.4	2.4
87.5°	11.8	11.8	9.5	7.1	9.5	9.5	7.1	2.4	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)