

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: P640960

Luminaire Tested: GWS-SA5E-830-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640960  
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-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

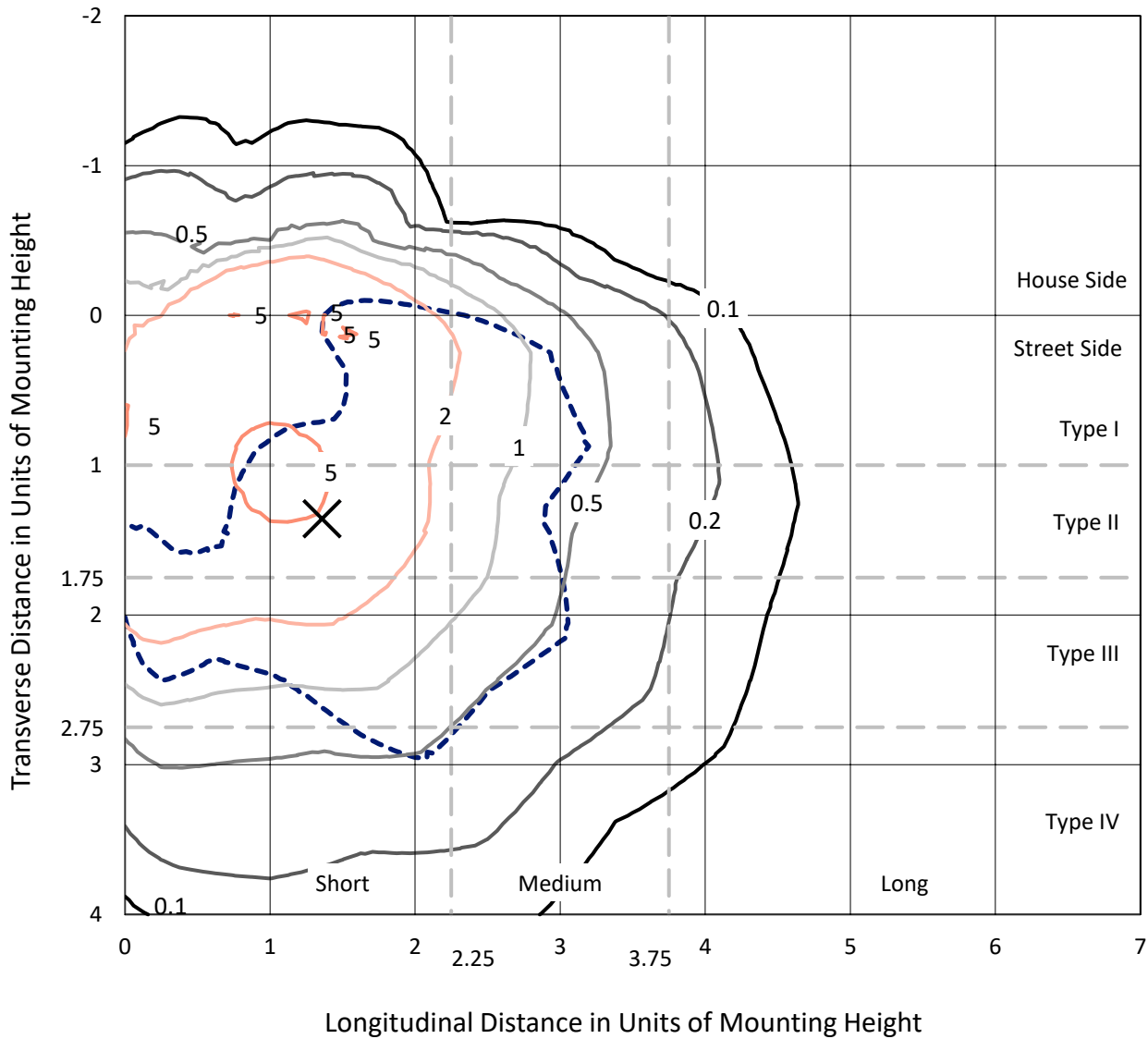
Lumens per Lamp: N/A  
Luminaire Lumens: 18507.3 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

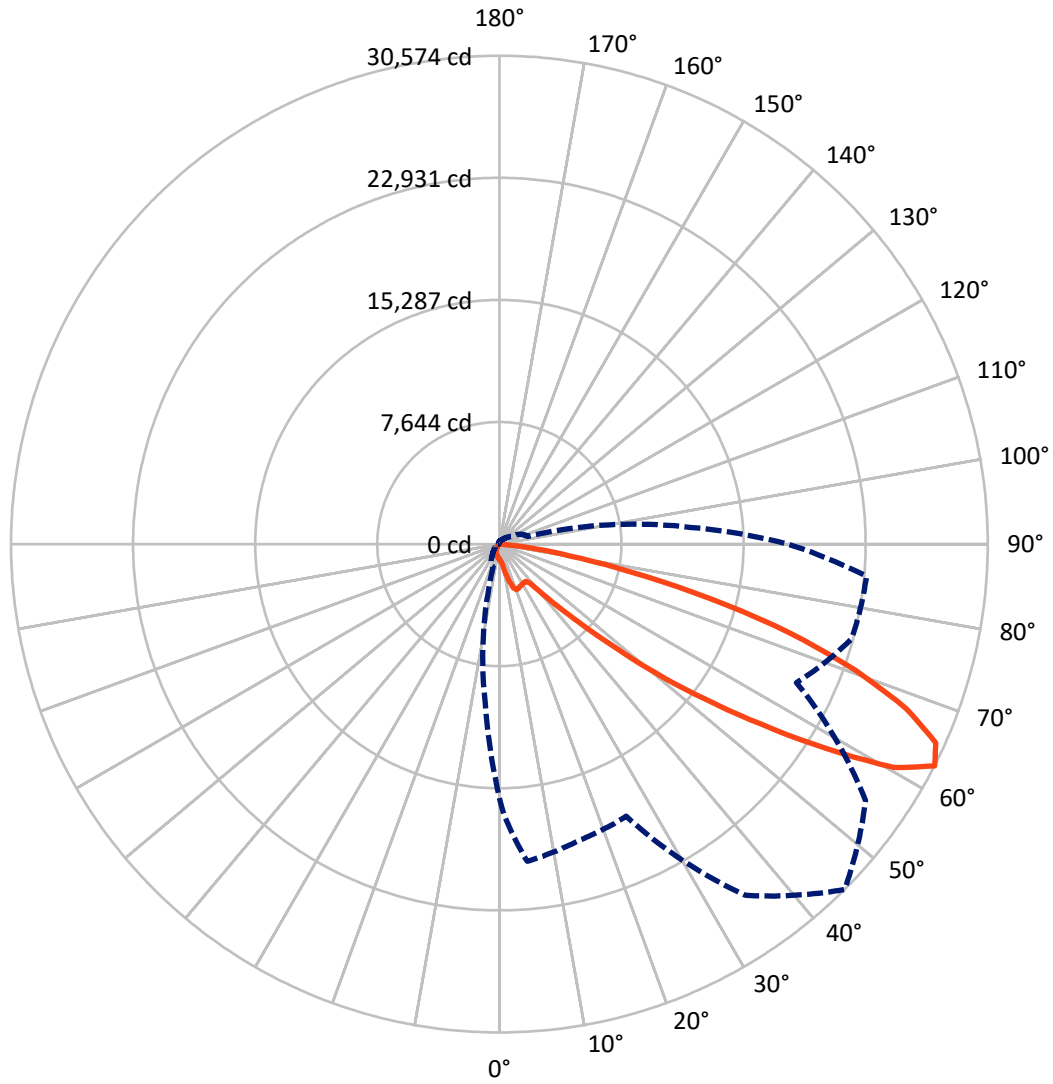
✕ Max cd  
 - - - 1/2 Max cd



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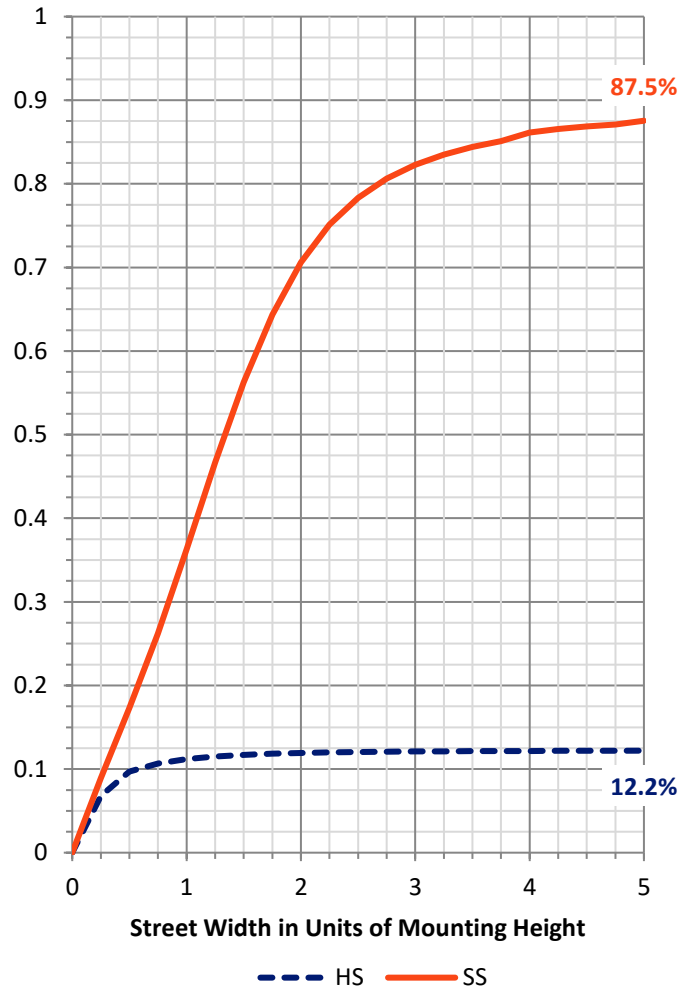
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2283.8	0.0	2283.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16223.5	0.0	16223.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	18507.3	0.0	18507.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	0.5
10°-20°	322.7	1.7
20°-30°	701.4	3.8
30°-40°	1151.3	6.2
40°-50°	2116.4	11.4
50°-60°	4545.1	24.6
60°-70°	6104.8	33.0
70°-80°	3178.8	17.2
80°-90°	301.4	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°	18507.3	100.0
0°-180°	18507.3	100.0

**Coefficient of Utilization**



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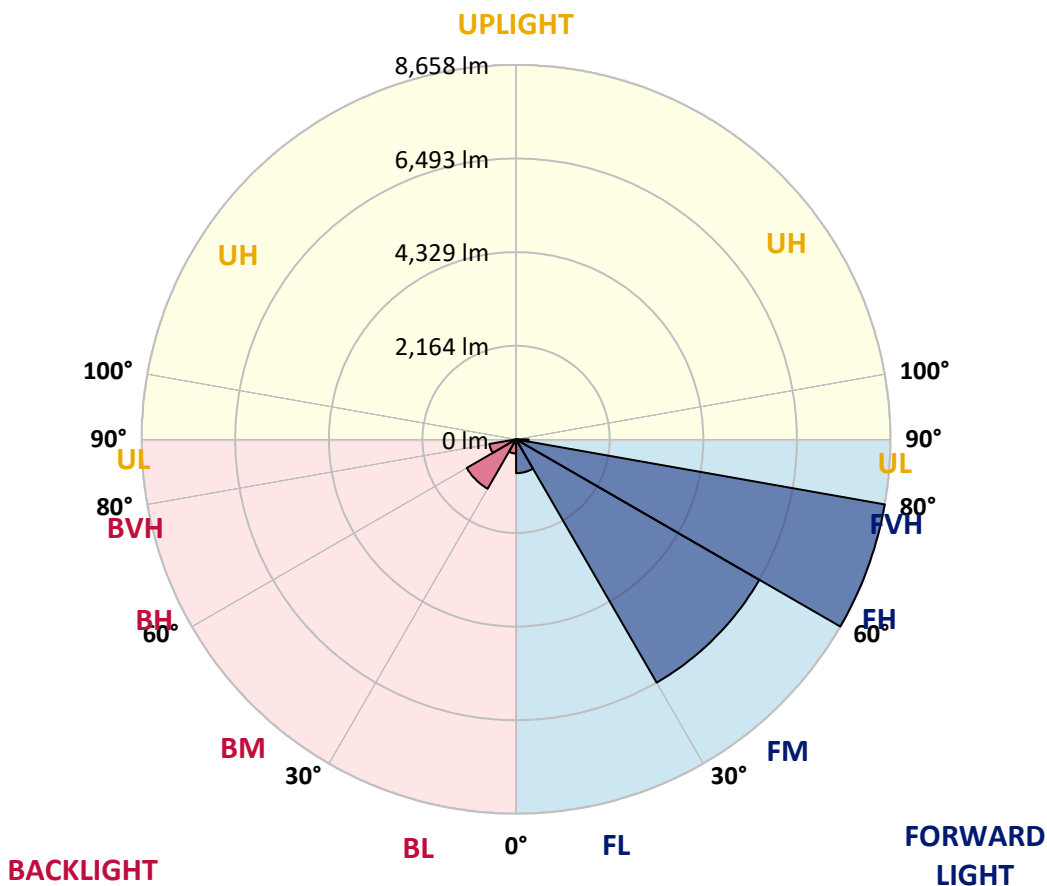
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.8	4.2			
FM (30°-60°)	6495.8	35.1			
FH (60°-80°)	8657.9	46.8			G4/12000
FVH (80°-90°)	288.0	1.6			G3/500
BL (0°-30°)	327.6	1.8	B1/500		
BM (30°-60°)	1317.0	7.1	B2/2500		
BH (60°-80°)	625.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.4	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°	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0
2.5°	981.2	985.5	989.8	1004.7	1015.4	1024.0	1026.1	1019.7	1004.7	989.8	968.4
5°	951.3	955.6	970.5	1011.2	1051.8	1083.8	1094.5	1088.1	1051.8	1004.7	955.6
7.5°	949.2	957.7	994.1	1079.6	1167.2	1233.5	1250.6	1235.6	1167.2	1073.2	972.7
10°	1026.1	1041.1	1094.5	1248.5	1408.8	1526.4	1573.4	1509.3	1400.2	1229.2	1064.6
12.5°	1227.1	1252.7	1355.3	1579.8	1827.8	1983.8	2048.0	1968.9	1797.9	1549.9	1289.1
15°	1543.5	1581.9	1735.9	2071.5	2364.4	2503.3	2524.7	2479.8	2281.0	2007.4	1656.8
17.5°	1990.3	2045.8	2285.3	2627.3	2838.9	2888.1	2881.7	2834.7	2689.3	2501.2	2169.8
20°	2524.7	2591.0	2826.1	3108.3	3129.7	3072.0	3039.9	3012.1	2962.9	2930.9	2672.2
22.5°	3063.4	3144.6	3390.5	3461.0	3268.6	3101.9	3022.8	3044.2	3116.9	3275.0	3170.3
25°	3600.0	3676.9	3907.8	3717.6	3332.8	3054.9	2954.4	3005.7	3178.8	3520.9	3655.6
27.5°	4226.4	4284.1	4420.9	3892.9	3343.5	3016.4	2918.0	2997.1	3208.8	3674.8	4187.9
30°	4878.4	4912.6	4846.3	3939.9	3307.1	2958.7	2881.7	2997.1	3260.1	3777.4	4587.6
32.5°	5357.2	5363.6	5147.7	3944.2	3287.9	2911.6	2847.5	2984.3	3309.3	3862.9	4974.6
35°	5851.1	5819.0	5436.3	4008.3	3339.2	2928.7	2873.2	3020.7	3386.2	3963.4	5314.5
37.5°	6351.3	6293.6	5759.1	4113.1	3471.7	3114.7	3080.5	3206.6	3510.2	4102.4	5688.6
40°	6864.3	6785.3	6094.8	4271.2	3766.7	3747.5	3865.1	3850.1	3850.1	4279.8	6073.4
42.5°	7490.7	7398.8	6590.7	4718.0	4455.1	4884.8	5205.4	5006.6	4638.9	4688.1	6573.6
45°	8318.0	8238.9	7450.1	5573.1	5534.7	6522.3	6954.1	6560.8	5645.8	5630.9	7409.5
47.5°	9641.3	9626.3	8820.4	6565.1	6855.8	8606.6	9440.4	8683.6	6793.8	6629.2	8991.4
50°	11501.2	11456.3	10528.5	7728.0	8427.1	11189.0	12676.9	11415.6	8181.2	7794.3	11109.9
52.5°	13596.2	13643.2	12920.6	8997.8	10096.6	14062.2	16133.7	14545.3	9688.3	9275.7	13775.7
55°	15569.3	15838.7	15648.4	10483.6	11727.8	17234.6	19930.3	17978.6	11554.6	11214.7	16764.3
57.5°	17112.8	17871.7	19205.6	12642.7	13645.3	20945.8	24169.5	21700.4	13733.0	14363.6	20832.5
60°	17198.3	18203.0	21300.6	17159.8	16112.3	24128.9	28402.3	25336.7	17157.7	19710.2	24019.9
62.5°	15909.2	16986.6	19936.8	19212.1	18799.5	26837.4	30574.3	27987.6	20526.8	22842.0	23075.0
65°	14434.2	15522.3	18414.7	16884.0	18487.4	26722.0	30022.7	28049.6	20832.5	20712.8	21384.0
67.5°	12204.5	13181.4	15800.2	14945.1	17040.1	25432.9	27474.5	26281.6	19192.8	19372.4	19671.7
70°	8908.0	9848.7	12279.3	12322.1	14881.0	23109.2	23607.3	23442.7	17675.0	17865.3	17010.2
72.5°	6434.7	7227.8	9324.9	10105.2	11879.5	19378.8	19034.6	19669.5	15165.3	15911.4	13662.4
75°	4626.1	5220.4	6840.8	8790.5	9416.8	14391.4	13626.1	15233.7	12168.1	13700.9	10271.9
77.5°	1877.0	2086.5	2691.4	5921.6	6188.8	9681.9	8341.5	11065.0	8675.0	9002.1	4978.8
80°	77.0	85.5	111.2	3057.0	4243.5	5447.0	4463.6	5915.2	5729.2	3625.6	1175.8
82.5°	8.6	8.6	19.2	880.8	1857.7	3005.7	2103.6	3407.6	2900.9	1537.0	534.4
85°	2.1	2.1	4.3	100.5	436.1	481.0	284.3	1045.4	1348.9	628.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	19.2	21.4	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°	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0
2.5°	968.4	957.7	944.9	932.1	925.7	908.5	902.1	897.9	893.6	895.7	895.7
5°	936.3	912.8	885.0	857.2	842.3	825.2	816.6	812.3	814.5	823.0	823.0
7.5°	932.1	887.2	827.3	791.0	773.9	761.0	752.5	748.2	750.4	761.0	765.3
10°	1002.6	923.5	816.6	754.6	735.4	722.6	714.0	707.6	703.3	711.9	714.0
12.5°	1154.4	1045.4	867.9	750.4	716.1	699.0	692.6	679.8	673.4	677.7	679.8
15°	1468.6	1280.5	970.5	767.5	699.0	679.8	669.1	658.4	647.7	645.6	647.7
17.5°	1879.1	1609.7	1126.6	808.1	686.2	662.7	647.7	632.8	617.8	615.7	613.5
20°	2387.9	2013.8	1344.7	872.2	675.5	647.7	626.4	605.0	585.7	579.3	579.3
22.5°	2851.8	2501.2	1624.7	951.3	660.6	626.4	600.7	575.1	553.7	543.0	540.9
25°	3418.3	3018.5	1960.3	1043.2	639.2	598.6	570.8	545.1	523.8	510.9	506.6
27.5°	3989.1	3563.6	2340.8	1162.9	613.5	570.8	545.1	521.6	498.1	483.1	478.9
30°	4542.7	4151.5	2768.4	1312.6	594.3	543.0	521.6	498.1	476.7	453.2	446.8
32.5°	5137.0	4752.2	3247.3	1479.3	579.3	523.8	500.2	478.9	451.1	429.7	419.0
35°	5710.0	5372.2	3775.3	1641.8	564.4	506.6	481.0	459.6	429.7	406.2	391.2
37.5°	6287.2	6002.8	4326.8	1740.1	543.0	483.1	459.6	442.5	408.3	380.5	363.4
40°	6898.6	6654.8	4923.3	1699.5	523.8	457.5	444.7	425.4	386.9	354.9	333.5
42.5°	7569.8	7276.9	5530.4	1543.5	506.6	436.1	423.3	404.0	367.7	329.2	301.4
45°	8414.2	7958.9	6028.5	1308.3	515.2	414.7	389.1	384.8	350.6	301.4	267.2
47.5°	9865.8	9006.4	6415.4	1156.5	572.9	391.2	361.3	372.0	335.6	273.6	235.2
50°	12086.9	10742.2	6776.7	1145.8	660.6	380.5	335.6	363.4	320.7	245.8	207.4
52.5°	14203.3	12505.9	7007.6	1239.9	737.5	408.3	310.0	352.7	310.0	226.6	188.1
55°	16227.7	13523.5	6595.0	1308.3	810.2	491.7	290.7	335.6	297.1	215.9	181.7
57.5°	18410.4	13976.7	5192.6	1447.3	861.5	562.2	295.0	310.0	280.0	209.5	179.6
60°	19062.4	13397.3	3134.0	1629.0	833.7	583.6	327.1	275.8	256.5	196.7	173.2
62.5°	18049.1	12022.8	1849.2	1483.6	810.2	551.5	374.1	254.4	233.0	179.6	160.3
65°	16533.4	10156.5	1205.7	1252.7	859.4	491.7	397.6	243.7	211.6	162.5	141.1
67.5°	14801.9	8181.2	844.4	739.7	793.1	442.5	335.6	241.6	190.3	136.8	115.4
70°	12467.4	6126.8	594.3	489.5	660.6	393.3	260.8	235.2	166.7	111.2	89.8
72.5°	9632.7	3835.1	442.5	316.4	470.3	320.7	207.4	198.8	134.7	91.9	68.4
75°	7103.8	2186.9	312.1	228.7	310.0	243.7	153.9	141.1	115.4	87.6	62.0
77.5°	3709.0	1094.5	194.5	175.3	177.4	151.8	111.2	102.6	106.9	87.6	57.7
80°	711.9	218.1	117.6	128.3	96.2	96.2	81.2	85.5	94.1	70.5	49.2
82.5°	297.1	47.0	64.1	72.7	59.9	66.3	66.3	68.4	66.3	51.3	36.3
85°	0.0	0.0	27.8	29.9	40.6	40.6	34.2	34.2	34.2	29.9	21.4
87.5°	0.0	0.0	0.0	0.0	2.1	6.4	12.8	15.0	17.1	12.8	8.6
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°	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0
2.5°	893.6	889.3	895.7	900.0	904.3	904.3	900.0	895.7	889.3	895.7	889.3
5°	825.2	831.6	842.3	846.6	850.8	842.3	838.0	825.2	814.5	816.6	812.3
7.5°	771.7	778.1	791.0	799.5	799.5	795.2	782.4	769.6	752.5	752.5	750.4
10°	722.6	731.1	746.1	756.8	761.0	756.8	743.9	726.8	711.9	711.9	705.5
12.5°	681.9	692.6	709.7	724.7	729.0	724.7	711.9	694.8	677.7	677.7	673.4
15°	647.7	660.6	679.8	696.9	703.3	696.9	681.9	660.6	643.5	645.6	639.2
17.5°	615.7	626.4	652.0	671.3	677.7	671.3	652.0	624.2	607.1	611.4	607.1
20°	579.3	592.2	617.8	639.2	645.6	639.2	617.8	587.9	570.8	570.8	572.9
22.5°	540.9	553.7	579.3	594.3	602.8	596.4	575.1	547.3	530.2	530.2	532.3
25°	506.6	513.1	532.3	547.3	549.4	543.0	525.9	504.5	491.7	498.1	500.2
27.5°	474.6	474.6	483.1	491.7	489.5	483.1	476.7	459.6	457.5	463.9	470.3
30°	440.4	429.7	425.4	419.0	416.9	414.7	421.1	421.1	425.4	434.0	440.4
32.5°	410.5	389.1	369.8	350.6	339.9	348.5	365.6	380.5	395.5	408.3	414.7
35°	376.2	342.0	310.0	284.3	267.2	280.0	307.8	335.6	361.3	378.4	389.1
37.5°	342.0	292.9	254.4	222.3	209.5	220.2	250.1	288.6	327.1	348.5	363.4
40°	305.7	243.7	198.8	173.2	160.3	171.0	200.9	239.4	290.7	318.5	337.8
42.5°	269.4	200.9	160.3	134.7	128.3	134.7	158.2	196.7	252.3	286.5	312.1
45°	233.0	166.7	128.3	109.0	102.6	109.0	128.3	160.3	215.9	254.4	284.3
47.5°	200.9	141.1	106.9	89.8	85.5	91.9	106.9	134.7	181.7	220.2	254.4
50°	175.3	124.0	91.9	77.0	72.7	79.1	91.9	113.3	153.9	188.1	224.5
52.5°	158.2	115.4	81.2	66.3	64.1	68.4	79.1	96.2	130.4	160.3	194.5
55°	153.9	115.4	74.8	59.9	57.7	62.0	70.5	83.4	113.3	139.0	168.9
57.5°	158.2	124.0	70.5	51.3	49.2	53.4	62.0	72.7	98.3	119.7	147.5
60°	158.2	126.1	62.0	40.6	38.5	42.8	51.3	64.1	87.6	104.8	128.3
62.5°	143.2	115.4	51.3	32.1	27.8	32.1	42.8	53.4	77.0	94.1	113.3
65°	124.0	98.3	42.8	23.5	19.2	23.5	34.2	44.9	66.3	81.2	102.6
67.5°	100.5	74.8	32.1	17.1	12.8	17.1	25.7	36.3	55.6	70.5	91.9
70°	74.8	53.4	25.7	15.0	12.8	15.0	23.5	34.2	49.2	64.1	85.5
72.5°	55.6	36.3	21.4	15.0	10.7	15.0	21.4	32.1	47.0	62.0	81.2
75°	47.0	29.9	19.2	12.8	10.7	12.8	19.2	29.9	42.8	57.7	77.0
77.5°	44.9	27.8	17.1	10.7	8.6	10.7	17.1	25.7	38.5	53.4	74.8
80°	38.5	23.5	15.0	8.6	6.4	8.6	15.0	21.4	29.9	40.6	57.7
82.5°	29.9	19.2	10.7	4.3	2.1	4.3	10.7	12.8	19.2	23.5	34.2
85°	19.2	10.7	4.3	0.0	0.0	0.0	4.3	8.6	8.6	10.7	17.1
87.5°	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3	6.4
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-830-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0	962.0
2.5°	902.1	904.3	908.5	915.0	929.9	942.8	955.6	972.7	981.2	981.2
5°	816.6	818.8	820.9	829.5	850.8	867.9	895.7	929.9	947.0	951.3
7.5°	750.4	754.6	758.9	765.3	786.7	810.2	846.6	910.7	942.8	949.2
10°	711.9	718.3	726.8	739.7	758.9	784.6	846.6	962.0	1015.4	1026.1
12.5°	681.9	692.6	701.2	716.1	739.7	780.3	904.3	1107.4	1201.4	1227.1
15°	652.0	664.8	677.7	692.6	718.3	795.2	1015.4	1368.2	1524.2	1543.5
17.5°	622.1	637.1	654.2	671.3	703.3	831.6	1190.7	1729.4	1947.5	1990.3
20°	587.9	607.1	630.6	652.0	688.4	889.3	1434.4	2159.1	2432.8	2524.7
22.5°	551.5	575.1	602.8	630.6	671.3	959.9	1729.4	2620.9	3003.6	3063.4
25°	521.6	545.1	570.8	598.6	643.5	1045.4	2086.5	3193.8	3542.3	3600.0
27.5°	493.8	517.3	540.9	566.5	615.7	1156.5	2516.1	3803.1	4166.5	4226.4
30°	463.9	491.7	515.2	540.9	590.0	1293.3	3012.1	4478.6	4822.8	4878.4
32.5°	438.2	466.0	489.5	515.2	570.8	1443.0	3533.7	5077.2	5357.2	5357.2
35°	416.9	446.8	463.9	498.1	555.8	1539.2	4027.5	5648.0	5859.6	5851.1
37.5°	393.3	429.7	442.5	466.0	536.6	1549.9	4491.4	6250.8	6406.9	6351.3
40°	369.8	408.3	427.6	440.4	515.2	1462.2	5000.2	6804.5	6937.0	6864.3
42.5°	348.5	378.4	406.2	421.1	502.4	1308.3	5408.5	7396.7	7554.8	7490.7
45°	327.1	352.7	369.8	397.6	510.9	1201.4	5759.1	8087.1	8365.1	8318.0
47.5°	305.7	327.1	337.8	380.5	568.6	1152.3	5972.9	9156.0	9679.8	9641.3
50°	282.2	307.8	307.8	376.2	654.2	1169.4	6158.9	10703.8	11514.0	11501.2
52.5°	258.7	286.5	282.2	408.3	720.4	1248.5	6370.5	12069.8	13478.6	13596.2
55°	235.2	260.8	265.1	472.4	758.9	1316.9	5551.8	12644.9	15156.7	15569.3
57.5°	209.5	224.5	275.8	521.6	746.1	1515.7	3803.1	12749.6	16227.7	17112.8
60°	181.7	194.5	312.1	510.9	705.5	1400.2	2394.3	11809.0	16076.0	17198.3
62.5°	158.2	179.6	329.2	451.1	718.3	1214.2	1526.4	10064.6	14628.7	15909.2
65°	139.0	173.2	299.3	408.3	726.8	823.0	1030.4	8187.6	13215.6	14434.2
67.5°	124.0	192.4	245.8	363.4	624.2	579.3	707.6	6362.0	11112.1	12204.5
70°	113.3	196.7	200.9	312.1	483.1	372.0	466.0	4281.9	7659.6	8908.0
72.5°	102.6	145.4	151.8	250.1	312.1	226.6	301.4	2449.9	5583.8	6434.7
75°	98.3	98.3	104.8	162.5	173.2	164.6	194.5	1462.2	4004.0	4626.1
77.5°	91.9	74.8	66.3	104.8	94.1	117.6	115.4	649.9	1735.9	1877.0
80°	72.7	53.4	44.9	66.3	64.1	79.1	68.4	53.4	79.1	77.0
82.5°	44.9	34.2	32.1	40.6	36.3	40.6	32.1	8.6	8.6	8.6
85°	21.4	19.2	17.1	17.1	19.2	17.1	12.8	4.3	2.1	2.1
87.5°	10.7	10.7	8.6	6.4	8.6	8.6	6.4	2.1	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)