

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: P640351

Luminaire Tested: GWS-SA5D-760-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640351  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

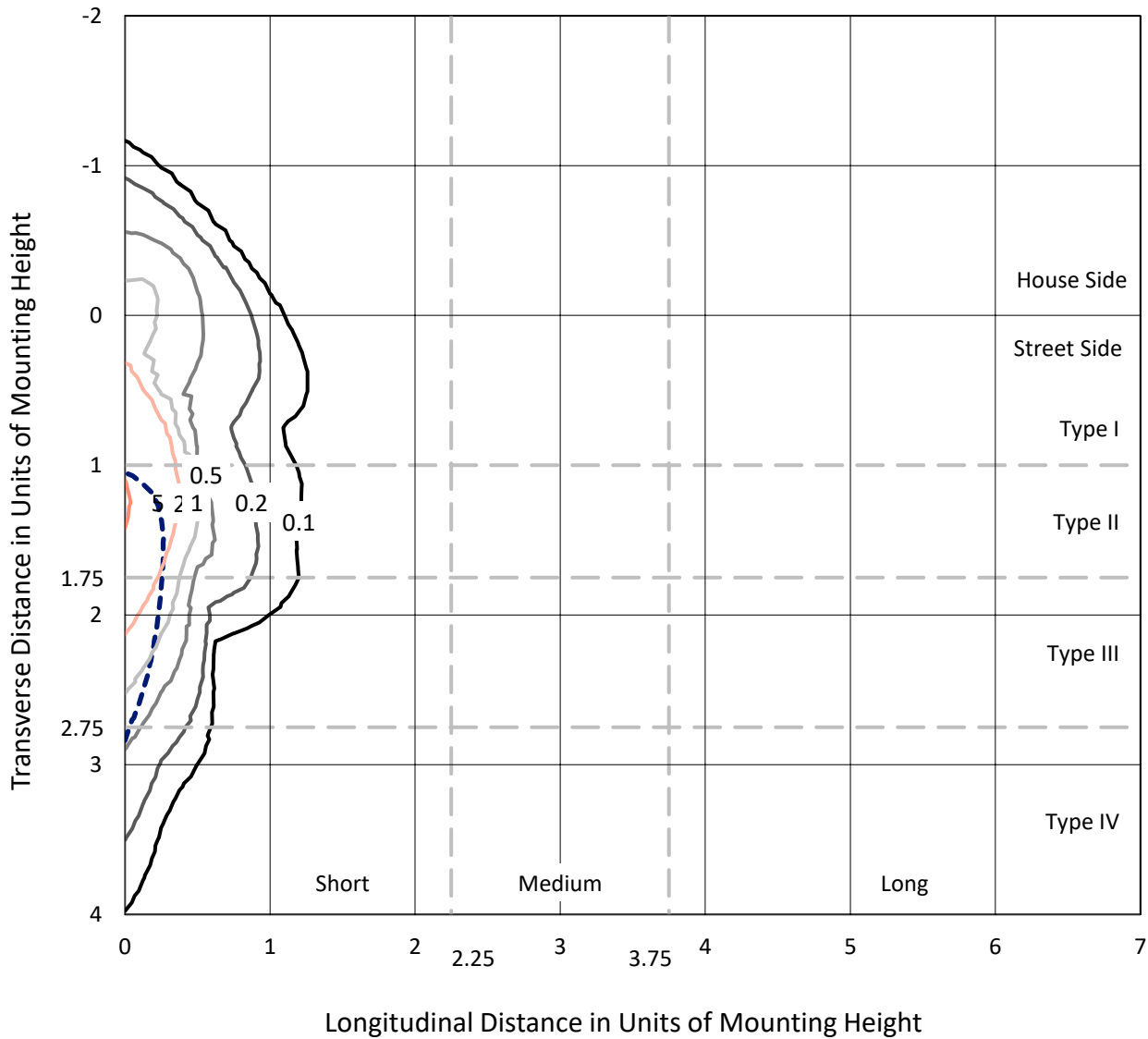
Lumens per Lamp: N/A  
Luminaire Lumens: 18350.7 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P640351  
 CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

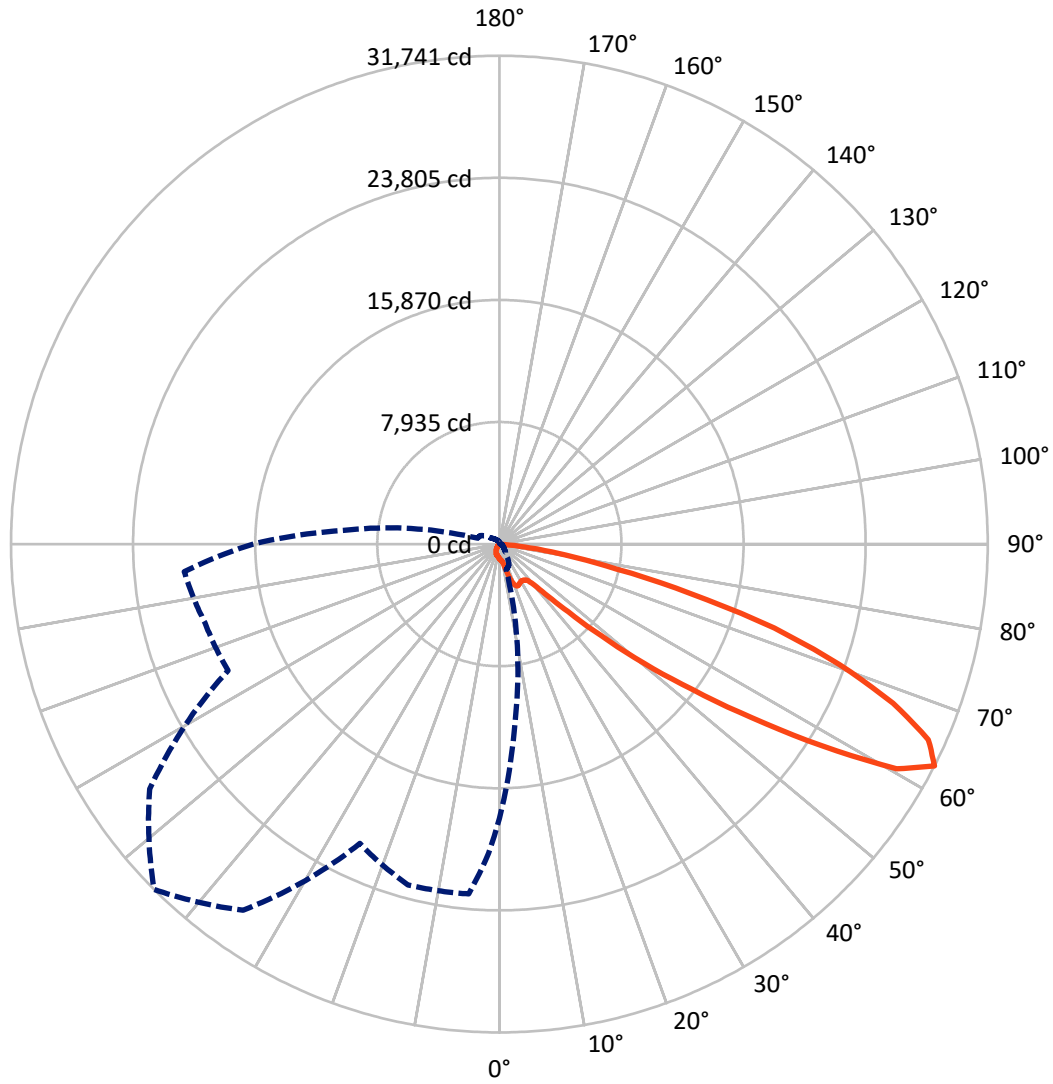
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P640351  
CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P640351  
 CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2132.1	0.0	2132.1
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	16218.6	0.0	16218.6
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	18350.7	0.0	18350.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.2	0.4
10°-20°	281.7	1.5
20°-30°	636.4	3.5
30°-40°	1096.3	6.0
40°-50°	2068.0	11.3
50°-60°	4617.2	25.2
60°-70°	6175.4	33.7
70°-80°	3096.8	16.9
80°-90°	296.8	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°	18350.7	100.0
0°-180°	18350.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640351

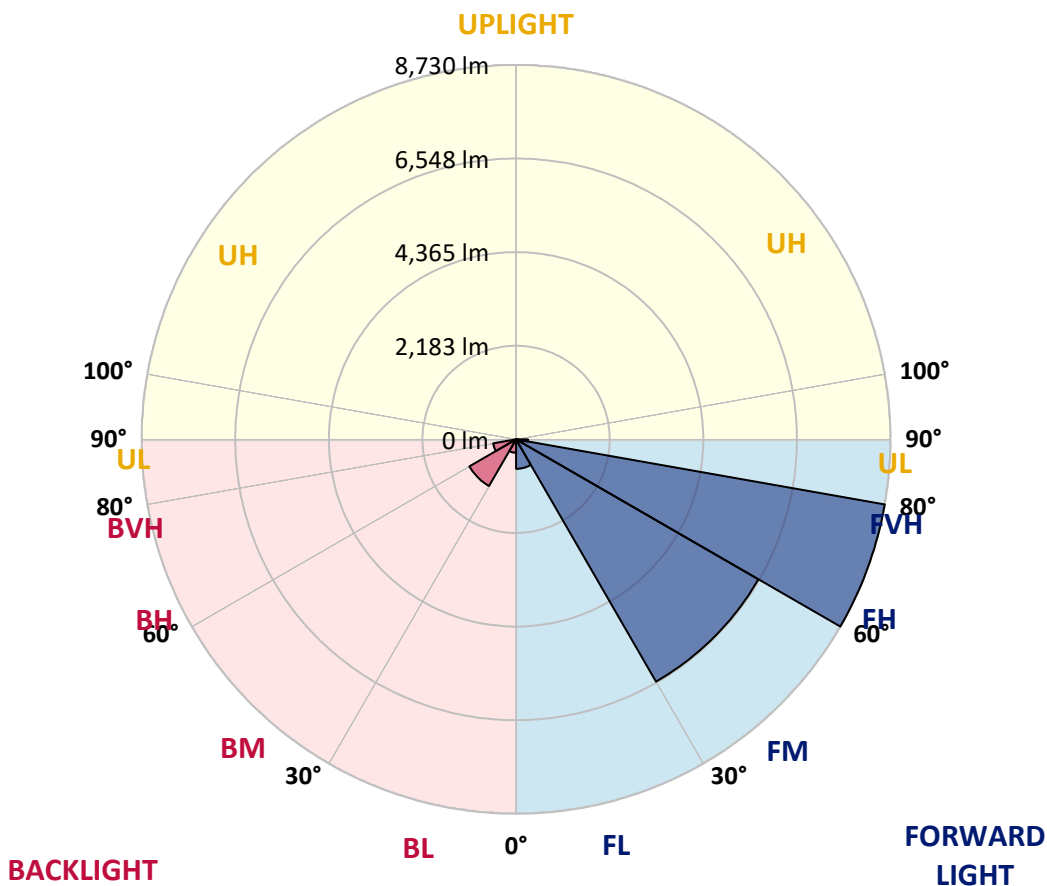
CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.3	3.7			
FM (30°-60°)	6524.2	35.6			
FH (60°-80°)	8730.0	47.6			G4/12000
FVH (80°-90°)	277.1	1.5			G3/500
BL (0°-30°)	313.0	1.7	B1/500		
BM (30°-60°)	1257.2	6.9	B2/2500		
BH (60°-80°)	542.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	19.7	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 III Short





REPORT NUMBER: P640351

CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	940.8	938.7	934.3	921.3	910.4	903.9	890.9	890.9	888.7	884.3	875.6
5°	910.4	901.7	893.0	869.1	843.1	827.8	810.5	808.3	808.3	803.9	801.8
7.5°	862.6	853.9	843.1	803.9	780.0	764.8	749.6	747.4	740.9	740.9	740.9
10°	836.5	823.5	806.1	762.7	738.8	725.7	714.9	708.3	704.0	697.5	695.3
12.5°	893.0	869.1	832.2	754.0	721.4	704.0	691.0	686.6	673.6	664.9	658.4
15°	1069.0	1010.4	936.5	773.5	714.9	688.8	671.4	662.7	651.8	636.6	625.8
17.5°	1358.0	1273.3	1149.4	836.5	708.3	675.7	654.0	638.8	623.6	606.2	593.2
20°	1757.8	1631.8	1484.0	951.7	708.3	660.5	634.5	614.9	593.2	573.6	558.4
22.5°	2266.2	2140.2	1888.2	1147.2	717.0	641.0	610.6	584.5	558.4	541.0	523.6
25°	2835.5	2657.4	2422.7	1384.1	740.9	614.9	582.3	556.2	532.3	510.6	491.1
27.5°	3470.0	3276.6	2963.7	1720.9	793.1	588.8	551.9	528.0	506.3	484.5	458.5
30°	4054.5	3939.3	3619.9	2125.0	877.8	571.5	528.0	506.3	484.5	456.3	432.4
32.5°	4756.3	4552.1	4289.1	2585.7	990.8	554.1	508.4	478.0	460.6	434.6	408.5
35°	5462.5	5288.6	4943.2	3152.8	1116.8	536.7	484.5	456.3	441.1	410.7	382.4
37.5°	6190.4	6151.2	5810.1	3780.7	1240.7	517.1	456.3	438.9	423.7	388.9	356.3
40°	6907.4	6835.7	6520.6	4497.7	1316.7	495.4	432.4	421.5	404.1	365.0	328.1
42.5°	7594.0	7539.7	7233.3	5184.3	1305.9	475.8	408.5	395.5	382.4	343.3	297.7
45°	8437.0	8348.0	7961.2	5692.8	1195.0	497.6	384.6	362.9	360.7	323.7	267.3
47.5°	10014.5	9721.2	9065.0	6083.9	1084.2	554.1	358.5	332.4	347.7	304.2	236.8
50°	12224.3	11878.8	10929.3	6388.1	1082.1	627.9	354.2	304.2	336.8	289.0	210.8
52.5°	14444.9	13836.5	12682.7	6551.0	1162.5	682.3	393.3	275.9	323.7	273.8	191.2
55°	16572.1	15309.7	13417.1	6012.2	1225.5	740.9	465.0	260.7	299.8	256.4	180.3
57.5°	18599.3	16493.9	13736.5	4756.3	1436.2	764.8	508.4	267.3	265.1	234.7	171.7
60°	18877.4	16437.4	13091.2	2766.0	1584.0	723.5	491.1	297.7	232.5	208.6	156.4
62.5°	17825.8	15344.4	11620.2	1725.2	1471.0	708.3	436.7	339.0	210.8	184.7	136.9
65°	16228.8	13630.1	9688.6	1112.5	1114.7	786.6	382.4	332.4	197.7	163.0	117.3
67.5°	13732.2	11407.3	7633.1	745.3	630.1	671.4	334.6	228.1	193.4	139.1	91.3
70°	10023.2	8119.8	4969.2	497.6	375.9	536.7	280.3	163.0	182.5	115.2	65.2
72.5°	7326.7	5455.9	2774.7	325.9	212.9	312.9	206.4	117.3	141.2	84.7	45.6
75°	5273.4	3754.6	1584.0	208.6	141.2	171.7	134.7	80.4	91.3	67.4	41.3
77.5°	2537.8	1829.5	719.2	115.2	95.6	86.9	71.7	50.0	56.5	60.8	36.9
80°	95.6	71.7	54.3	56.5	60.8	39.1	32.6	26.1	32.6	41.3	19.6
82.5°	0.0	0.0	0.0	6.5	8.7	10.9	13.0	10.9	13.0	15.2	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



REPORT NUMBER: P640351

CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	882.2	877.8	882.2	886.5	890.9	895.2	888.7	893.0	897.4	886.5	890.9
5°	812.6	810.5	823.5	830.0	838.7	843.1	838.7	838.7	836.5	823.5	823.5
7.5°	751.8	754.0	764.8	780.0	790.9	797.4	793.1	790.9	784.4	764.8	764.8
10°	706.2	706.2	723.5	736.6	751.8	758.3	754.0	747.4	740.9	721.4	719.2
12.5°	669.2	669.2	682.3	704.0	721.4	730.1	727.9	719.2	708.3	688.8	686.6
15°	634.5	632.3	651.8	671.4	695.3	706.2	701.8	695.3	675.7	658.4	654.0
17.5°	599.7	597.5	614.9	641.0	667.1	682.3	680.1	664.9	647.5	625.8	621.4
20°	564.9	560.6	582.3	608.4	634.5	649.7	645.3	632.3	610.6	588.8	584.5
22.5°	530.2	528.0	543.2	564.9	588.8	601.9	599.7	588.8	567.1	547.5	547.5
25°	491.1	491.1	501.9	517.1	534.5	541.0	543.2	538.9	525.8	515.0	515.0
27.5°	458.5	451.9	456.3	460.6	469.3	480.2	480.2	484.5	486.7	482.4	484.5
30°	432.4	421.5	415.0	406.3	402.0	406.3	410.7	425.9	441.1	449.8	454.1
32.5°	402.0	388.9	371.6	347.7	332.4	328.1	341.1	369.4	397.6	417.2	428.0
35°	371.6	354.2	321.6	286.8	267.3	260.7	275.9	308.5	349.8	384.6	399.8
37.5°	341.1	317.2	271.6	230.3	208.6	204.2	219.5	254.2	302.0	349.8	369.4
40°	306.4	278.1	223.8	180.3	163.0	158.6	171.7	206.4	256.4	310.7	341.1
42.5°	271.6	236.8	180.3	143.4	126.0	126.0	143.4	169.5	215.1	273.8	310.7
45°	236.8	199.9	147.8	115.2	104.3	106.5	117.3	143.4	180.3	241.2	275.9
47.5°	204.2	171.7	121.7	95.6	86.9	89.1	102.1	123.9	154.3	208.6	245.5
50°	176.0	145.6	106.5	80.4	73.9	78.2	91.3	110.8	136.9	184.7	215.1
52.5°	158.6	130.4	97.8	69.5	65.2	69.5	82.6	99.9	123.9	163.0	193.4
55°	149.9	128.2	97.8	63.0	56.5	60.8	73.9	91.3	110.8	147.8	173.8
57.5°	147.8	132.5	104.3	56.5	47.8	52.1	65.2	82.6	102.1	134.7	156.4
60°	139.1	126.0	102.1	45.6	36.9	43.5	54.3	71.7	93.4	126.0	145.6
62.5°	121.7	110.8	89.1	36.9	28.2	32.6	45.6	63.0	84.7	115.2	136.9
65°	99.9	89.1	69.5	23.9	17.4	21.7	34.8	54.3	73.9	104.3	123.9
67.5°	73.9	63.0	47.8	15.2	8.7	15.2	28.2	45.6	67.4	93.4	113.0
70°	45.6	36.9	26.1	8.7	6.5	13.0	26.1	43.5	60.8	86.9	106.5
72.5°	26.1	17.4	10.9	4.3	6.5	13.0	26.1	43.5	58.7	82.6	99.9
75°	19.6	10.9	4.3	2.2	4.3	10.9	23.9	39.1	56.5	78.2	95.6
77.5°	13.0	6.5	2.2	0.0	2.2	8.7	21.7	36.9	52.1	73.9	91.3
80°	2.2	0.0	0.0	0.0	0.0	6.5	19.6	32.6	47.8	65.2	80.4
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.2	28.2	41.3	54.3	65.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.7	21.7	32.6	41.3	45.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	21.7	26.1	30.4
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: P640351

CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	888.7	901.7	901.7	910.4	921.3	940.8	951.7	966.9	977.8	988.6	993.0
5°	821.3	823.5	825.7	830.0	843.1	864.8	884.3	908.2	936.5	958.2	971.2
7.5°	764.8	764.8	764.8	771.3	784.4	799.6	819.2	851.7	884.3	910.4	932.1
10°	717.0	723.5	725.7	736.6	751.8	771.3	793.1	821.3	858.3	893.0	932.1
12.5°	686.6	693.1	704.0	714.9	730.1	751.8	775.7	812.6	888.7	960.4	1043.0
15°	658.4	667.1	680.1	695.3	712.7	736.6	762.7	838.7	1016.9	1151.6	1282.0
17.5°	627.9	641.0	658.4	673.6	695.3	721.4	754.0	901.7	1251.5	1475.3	1697.0
20°	588.8	606.2	625.8	649.7	675.7	706.2	754.0	1032.1	1590.5	1912.1	2205.4
22.5°	551.9	569.3	593.2	623.6	654.0	684.4	764.8	1229.8	2027.2	2433.6	2805.1
25°	521.5	543.2	567.1	593.2	627.9	662.7	790.9	1507.9	2553.1	3076.7	3339.6
27.5°	493.2	519.3	543.2	564.9	595.4	634.5	849.6	1879.5	3174.5	3706.8	3913.2
30°	465.0	495.4	519.3	541.0	571.5	612.7	938.7	2353.2	3865.4	4382.6	4404.3
32.5°	441.1	469.3	497.6	519.3	547.5	595.4	1062.5	2907.2	4573.8	5073.5	4869.3
35°	415.0	447.6	473.7	497.6	528.0	580.1	1205.9	3504.8	5288.6	5708.0	5332.1
37.5°	388.9	425.9	458.5	475.8	506.3	564.9	1310.2	4128.4	6018.7	6327.2	5738.4
40°	365.0	406.3	443.3	460.6	475.8	545.4	1325.4	4767.2	6759.6	6937.8	6120.8
42.5°	339.0	384.6	417.2	441.1	454.1	532.3	1234.2	5306.0	7381.1	7546.2	6620.6
45°	310.7	365.0	391.1	408.5	434.6	541.0	1116.8	5723.2	8091.6	8376.2	7444.1
47.5°	282.5	343.3	365.0	378.1	412.8	593.2	1073.4	6001.3	9262.7	9853.7	8832.5
50°	256.4	323.7	347.7	345.5	408.5	660.5	1121.2	6212.1	11022.7	11718.0	10735.9
52.5°	228.1	302.0	330.3	321.6	441.1	712.7	1216.8	6379.4	12376.4	13903.9	13293.3
55°	204.2	278.1	304.2	302.0	501.9	751.8	1290.7	5497.2	12937.0	15935.4	16174.4
57.5°	186.9	252.0	273.8	310.7	541.0	751.8	1492.7	3902.4	12947.8	17430.3	19998.6
60°	171.7	228.1	243.4	341.1	525.8	712.7	1477.5	2390.1	11933.1	17328.2	22032.4
62.5°	158.6	206.4	226.0	349.8	465.0	706.2	1334.1	1481.9	10177.5	16009.3	20557.0
65°	147.8	189.0	217.3	321.6	421.5	756.1	899.5	1064.7	8254.5	14505.7	18864.4
67.5°	136.9	173.8	230.3	262.9	382.4	675.7	649.7	756.1	6479.3	12856.6	17310.8
70°	128.2	165.1	243.4	215.1	334.6	528.0	460.6	573.6	4960.5	10727.2	15122.8
72.5°	121.7	154.3	204.2	169.5	271.6	408.5	321.6	417.2	3241.8	8374.0	12328.6
75°	115.2	141.2	149.9	136.9	202.1	267.3	243.4	280.3	1931.6	6120.8	9354.0
77.5°	113.0	132.5	121.7	110.8	136.9	158.6	184.7	189.0	943.0	3061.5	4901.9
80°	99.9	119.5	104.3	91.3	93.4	104.3	136.9	126.0	215.1	777.9	1308.0
82.5°	78.2	93.4	86.9	76.0	76.0	76.0	91.3	84.7	69.5	349.8	591.0
85°	54.3	65.2	65.2	60.8	58.7	58.7	56.5	54.3	19.6	21.7	32.6
87.5°	36.9	45.6	47.8	45.6	39.1	34.8	30.4	26.1	8.7	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



REPORT NUMBER: P640351

CATALOG NUMBER: GWS-SA5D-760-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7	951.7
2.5°	1008.2	1014.7	1014.7	1006.0	999.5	982.1	964.7	947.3	943.0	940.8
5°	1008.2	1034.3	1047.3	1045.1	1029.9	1001.7	964.7	925.6	914.8	910.4
7.5°	993.0	1043.0	1082.1	1088.6	1060.3	1010.4	943.0	884.3	869.1	862.6
10°	1027.7	1125.5	1203.7	1214.6	1182.0	1084.2	975.6	875.6	851.7	836.5
12.5°	1214.6	1375.4	1471.0	1516.6	1453.6	1329.8	1149.4	971.2	916.9	893.0
15°	1592.7	1820.8	2003.3	2003.3	1944.7	1725.2	1497.1	1208.1	1134.2	1069.0
17.5°	2077.2	2364.0	2524.8	2507.4	2418.3	2264.1	1990.3	1575.3	1425.4	1358.0
20°	2629.1	2800.8	2837.7	2826.8	2787.7	2698.6	2509.6	2064.2	1862.1	1757.8
22.5°	3107.1	3061.5	3007.2	2963.7	2952.9	2978.9	2952.9	2609.6	2450.9	2266.2
25°	3430.9	3172.3	3009.4	2931.1	2968.1	3118.0	3281.0	3152.8	3026.7	2835.5
27.5°	3606.9	3159.3	2924.6	2844.2	2907.2	3120.2	3474.3	3691.6	3561.2	3470.0
30°	3702.5	3148.4	2870.3	2792.1	2887.7	3154.9	3609.0	4195.7	4200.1	4054.5
32.5°	3839.4	3217.9	2881.2	2809.5	2937.6	3259.2	3778.5	4708.5	4834.5	4756.3
35°	3993.6	3324.4	2931.1	2865.9	3024.6	3398.3	3967.6	5225.6	5488.5	5462.5
37.5°	4139.2	3443.9	3048.5	2985.5	3157.1	3517.8	4150.1	5734.1	6099.1	6190.4
40°	4291.3	3611.2	3409.1	3470.0	3565.6	3706.8	4313.0	6175.1	6770.5	6907.4
42.5°	4649.8	4191.4	4499.9	4615.1	4628.1	4336.9	4669.4	6740.1	7431.0	7594.0
45°	5449.4	5223.5	6107.8	6270.7	6186.0	5303.8	5527.6	7554.9	8354.5	8437.0
47.5°	6459.8	6564.1	8308.9	8871.6	8363.2	6444.6	6568.4	9269.2	10044.9	10014.5
50°	7637.5	8130.7	10807.6	12135.2	10918.4	7926.4	7767.8	11376.9	12317.7	12224.3
52.5°	9030.2	9951.5	13810.4	15696.4	14544.8	9593.0	9527.8	14168.9	14742.6	14444.9
55°	10783.7	11709.3	17265.2	19900.8	18262.5	11626.7	11850.5	17406.4	17517.2	16572.1
57.5°	13399.8	14001.6	21337.1	24722.3	22143.2	14390.6	16013.7	21715.1	20389.7	18599.3
60°	18149.5	16950.1	25272.0	29654.6	26271.5	18277.7	21504.4	24268.2	21345.8	18877.4
62.5°	19803.1	19453.2	27736.0	31740.5	29048.4	21469.6	22931.9	22821.1	20107.2	17825.8
65°	17297.8	18829.6	27294.9	30638.9	28692.0	20943.8	20578.7	21224.1	18712.3	16228.8
67.5°	15978.9	17365.2	25624.0	27599.1	26717.0	19159.9	18342.9	18166.9	15709.5	13732.2
70°	14649.1	16022.3	23201.3	23446.9	23036.2	16252.7	15179.3	13999.5	11741.9	10023.2
72.5°	13049.9	13806.1	19840.0	18675.4	18210.4	12765.3	12539.3	10542.5	8802.1	7326.7
75°	11381.2	11161.8	15468.3	12817.4	13165.1	9931.9	10590.3	7741.7	6448.9	5273.4
77.5°	8278.4	8115.5	10360.0	7785.2	8621.7	6505.4	5844.9	3089.7	2942.0	2537.8
80°	4619.4	5568.9	5595.0	4363.0	5442.9	4241.3	1462.3	102.1	65.2	95.6
82.5°	2146.7	2394.4	3033.3	2022.9	3105.0	2101.1	302.0	0.0	0.0	0.0
85°	695.3	1016.9	851.7	297.7	751.8	710.5	50.0	0.0	0.0	0.0
87.5°	41.3	84.7	21.7	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

(END OF REPORT)