

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: P637825

Luminaire Tested: GWS-SA4D-750-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637825  
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-SA4D-750-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

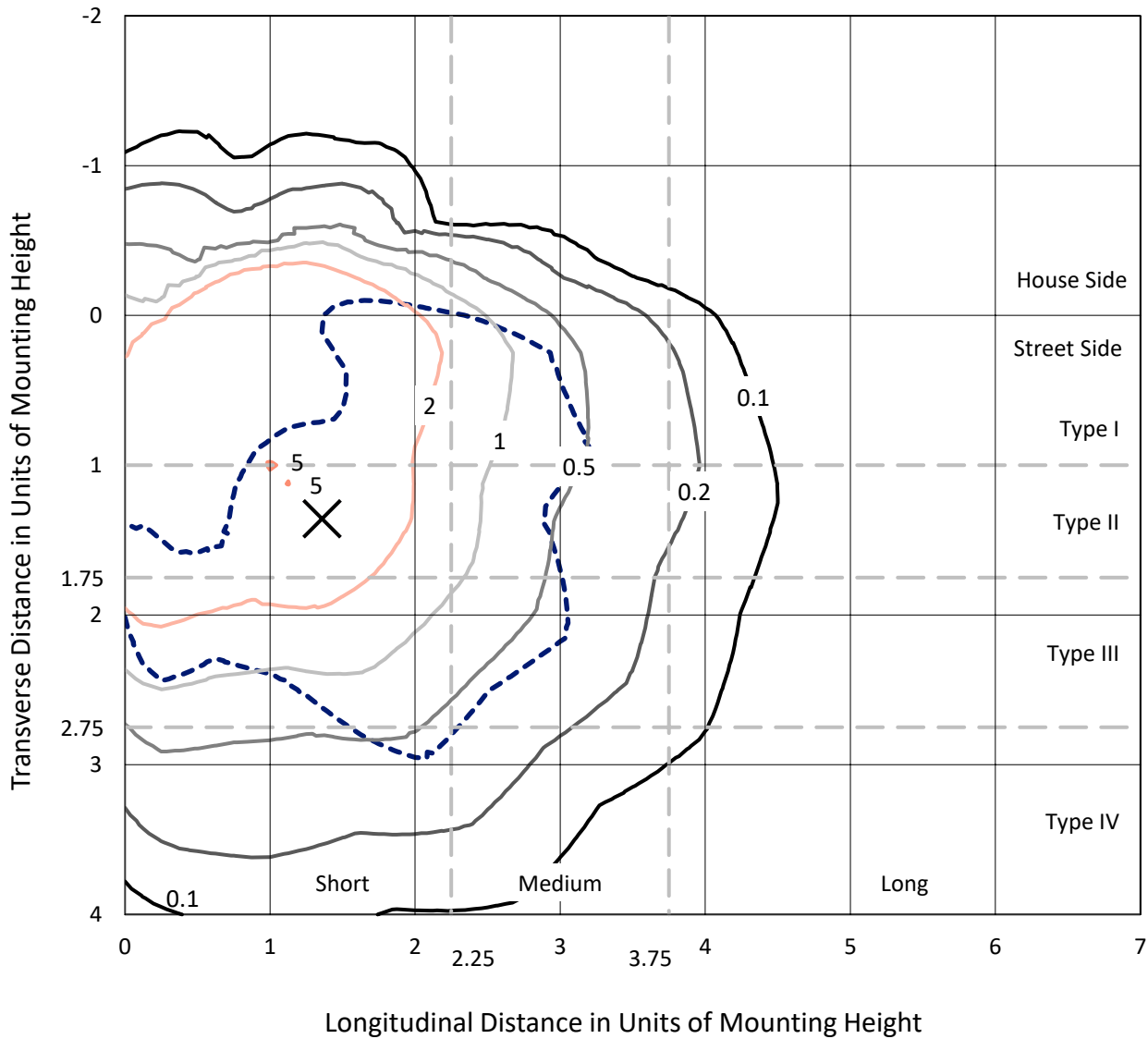
Lumens per Lamp: N/A  
Luminaire Lumens: 15546 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637825  
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

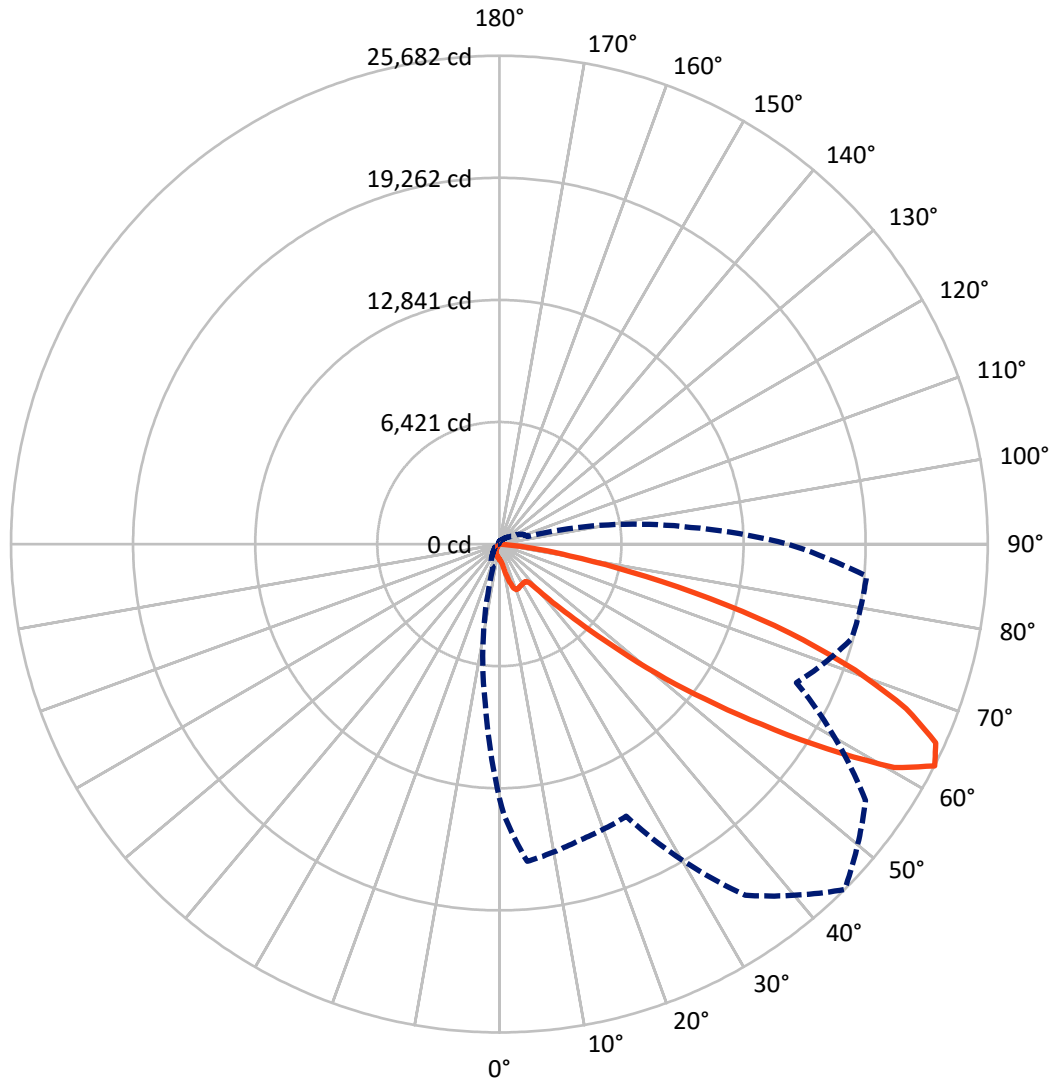
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P637825  
CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P637825  
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1918.4	0.0	1918.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13627.7	0.0	13627.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	15546.0	0.0	15546.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.7	0.5
10°-20°	271.0	1.7
20°-30°	589.2	3.8
30°-40°	967.1	6.2
40°-50°	1777.8	11.4
50°-60°	3817.9	24.6
60°-70°	5128.0	33.0
70°-80°	2670.2	17.2
80°-90°	253.2	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°	15546.0	100.0
0°-180°	15546.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637825

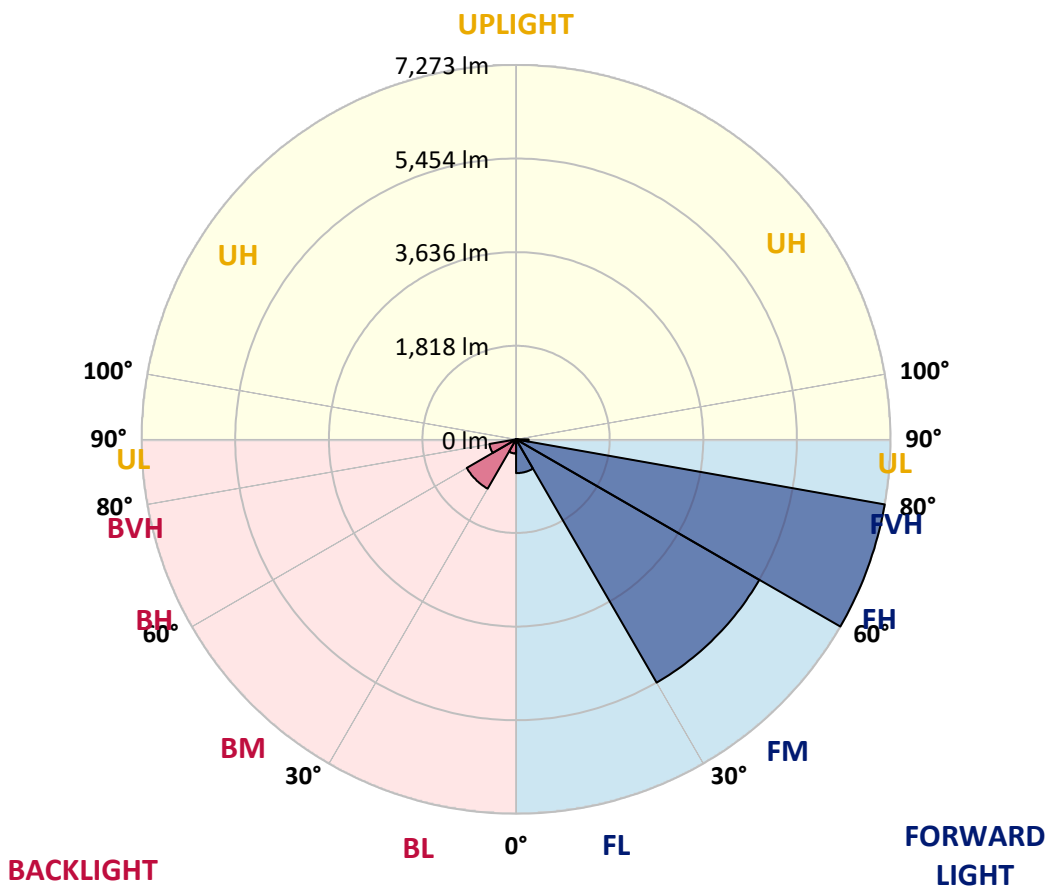
CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	656.7	4.2			
FM (30°-60°)	5456.5	35.1			
FH (60°-80°)	7272.6	46.8			G3/7500
FVH (80°-90°)	241.9	1.6			G3/500
BL (0°-30°)	275.2	1.8	B1/500		
BM (30°-60°)	1106.3	7.1	B2/2500		
BH (60°-80°)	525.6	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.3	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-G3**

Type IV Short





REPORT NUMBER: P637825

CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	824.2	827.8	831.4	844.0	853.0	860.1	861.9	856.6	844.0	831.4	813.5
5°	799.1	802.7	815.2	849.4	883.5	910.4	919.4	914.0	883.5	844.0	802.7
7.5°	797.3	804.5	835.0	906.8	980.5	1036.1	1050.5	1037.9	980.5	901.4	817.0
10°	861.9	874.5	919.4	1048.7	1183.4	1282.1	1321.6	1267.8	1176.2	1032.5	894.3
12.5°	1030.7	1052.3	1138.5	1327.0	1535.3	1666.4	1720.3	1653.8	1510.2	1301.9	1082.8
15°	1296.5	1328.8	1458.1	1740.0	1986.0	2102.8	2120.7	2083.0	1916.0	1686.2	1391.7
17.5°	1671.8	1718.5	1919.6	2206.9	2384.7	2426.0	2420.6	2381.1	2259.0	2101.0	1822.6
20°	2120.7	2176.4	2373.9	2611.0	2628.9	2580.4	2553.5	2530.1	2488.8	2461.9	2244.6
22.5°	2573.2	2641.5	2848.0	2907.2	2745.6	2605.6	2539.1	2557.1	2618.1	2751.0	2663.0
25°	3024.0	3088.6	3282.5	3122.7	2799.5	2566.1	2481.7	2524.8	2670.2	2957.5	3070.7
27.5°	3550.1	3598.6	3713.5	3270.0	2808.5	2533.7	2451.1	2517.6	2695.4	3086.8	3517.8
30°	4097.8	4126.5	4070.9	3309.5	2778.0	2485.3	2420.6	2517.6	2738.4	3173.0	3853.6
32.5°	4500.0	4505.4	4324.1	3313.1	2761.8	2445.7	2391.9	2506.8	2779.7	3244.8	4178.6
35°	4914.8	4887.9	4566.5	3366.9	2804.9	2460.1	2413.4	2537.3	2844.4	3329.2	4464.1
37.5°	5335.0	5286.6	4837.6	3454.9	2916.2	2616.3	2587.6	2693.6	2948.5	3446.0	4778.4
40°	5766.0	5699.6	5119.6	3587.8	3164.0	3147.9	3246.6	3234.1	3234.1	3595.0	5101.6
42.5°	6292.1	6214.9	5536.2	3963.1	3742.2	4103.2	4372.5	4205.5	3896.7	3938.0	5521.8
45°	6987.1	6920.6	6258.0	4681.4	4649.1	5478.7	5841.4	5511.0	4742.5	4729.9	6223.9
47.5°	8098.6	8086.1	7409.1	5514.6	5758.8	7229.5	7929.8	7294.1	5706.7	5568.5	7552.7
50°	9660.9	9623.2	8843.8	6491.5	7078.7	9398.7	10648.5	9589.1	6872.2	6547.1	9332.3
52.5°	11420.7	11460.2	10853.2	7558.1	8481.1	11812.1	13552.2	12218.0	8138.1	7791.6	11571.5
55°	13078.1	13304.4	13144.6	8806.1	9851.2	14477.0	16741.3	15101.9	9705.8	9420.3	14081.9
57.5°	14374.6	15012.1	16132.6	10619.8	11462.0	17594.3	20302.2	18228.2	11535.6	12065.3	17499.1
60°	14446.4	15290.4	17892.4	14414.1	13534.2	20268.1	23857.7	21282.7	14412.3	16556.4	20176.5
62.5°	13363.6	14268.7	16746.7	16138.0	15791.4	22543.3	25682.2	23509.4	17242.3	19187.1	19382.8
65°	12124.6	13038.6	15468.2	14182.5	15529.2	22446.3	25218.9	23561.4	17499.1	17398.6	17962.4
67.5°	10251.7	11072.3	13272.0	12553.8	14313.6	21363.5	23078.4	22076.4	16121.8	16272.7	16524.1
70°	7482.7	8272.8	10314.5	10350.4	12499.9	19411.6	19830.0	19691.7	14846.9	15006.7	14288.4
72.5°	5405.1	6071.3	7832.9	8488.3	9978.7	16278.1	15988.9	16522.3	12738.7	13365.4	11476.3
75°	3885.9	4385.1	5746.3	7383.9	7910.1	12088.7	11445.8	12796.2	10221.1	11508.7	8628.4
77.5°	1576.6	1752.6	2260.8	4974.1	5198.6	8132.7	7006.8	9294.6	7287.0	7561.7	4182.2
80°	64.6	71.8	93.4	2567.9	3564.5	4575.5	3749.4	4968.7	4812.5	3045.5	987.6
82.5°	7.2	7.2	16.2	739.8	1560.5	2524.8	1767.0	2862.4	2436.8	1291.1	448.9
85°	1.8	1.8	3.6	84.4	366.3	404.0	238.8	878.1	1133.1	527.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	16.2	18.0	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: P637825

CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	813.5	804.5	793.7	782.9	777.5	763.2	757.8	754.2	750.6	752.4	752.4
5°	786.5	766.8	743.4	720.1	707.5	693.1	686.0	682.4	684.2	691.3	691.3
7.5°	782.9	745.2	694.9	664.4	650.0	639.3	632.1	628.5	630.3	639.3	642.9
10°	842.2	775.7	686.0	633.9	617.7	606.9	599.8	594.4	590.8	598.0	599.8
12.5°	969.7	878.1	729.1	630.3	601.6	587.2	581.8	571.0	565.6	569.2	571.0
15°	1233.6	1075.6	815.2	644.7	587.2	571.0	562.1	553.1	544.1	542.3	544.1
17.5°	1578.4	1352.2	946.3	678.8	576.4	556.7	544.1	531.5	519.0	517.2	515.4
20°	2005.8	1691.6	1129.5	732.6	567.4	544.1	526.1	508.2	492.0	486.6	486.6
22.5°	2395.5	2101.0	1364.7	799.1	554.9	526.1	504.6	483.0	465.1	456.1	454.3
25°	2871.3	2535.5	1646.7	876.3	536.9	502.8	479.5	457.9	439.9	429.2	425.6
27.5°	3350.8	2993.4	1966.3	976.9	515.4	479.5	457.9	438.2	418.4	405.8	402.2
30°	3815.9	3487.3	2325.4	1102.6	499.2	456.1	438.2	418.4	400.4	380.7	375.3
32.5°	4315.1	3991.8	2727.7	1242.6	486.6	439.9	420.2	402.2	378.9	360.9	352.0
35°	4796.3	4512.6	3171.2	1379.1	474.1	425.6	404.0	386.1	360.9	341.2	328.6
37.5°	5281.2	5042.3	3634.5	1461.7	456.1	405.8	386.1	371.7	343.0	319.6	305.3
40°	5794.7	5590.0	4135.5	1427.6	439.9	384.3	373.5	357.3	325.0	298.1	280.1
42.5°	6358.6	6112.6	4645.5	1296.5	425.6	366.3	355.5	339.4	308.9	276.5	253.2
45°	7067.9	6685.4	5063.9	1099.0	432.8	348.4	326.8	323.2	294.5	253.2	224.5
47.5°	8287.2	7565.3	5388.9	971.5	481.2	328.6	303.5	312.5	281.9	229.9	197.5
50°	10152.9	9023.4	5692.4	962.5	554.9	319.6	281.9	305.3	269.4	206.5	174.2
52.5°	11930.7	10504.9	5886.3	1041.5	619.5	343.0	260.4	296.3	260.4	190.3	158.0
55°	13631.2	11359.6	5539.7	1099.0	680.6	413.0	244.2	281.9	249.6	181.4	152.6
57.5°	15464.6	11740.3	4361.8	1215.7	723.7	472.3	247.8	260.4	235.2	176.0	150.8
60°	16012.3	11253.7	2632.5	1368.3	700.3	490.2	274.7	231.6	215.5	165.2	145.5
62.5°	15161.1	10099.0	1553.3	1246.2	680.6	463.3	314.2	213.7	195.7	150.8	134.7
65°	13888.0	8531.4	1012.8	1052.3	721.9	413.0	334.0	204.7	177.8	136.5	118.5
67.5°	12433.5	6872.2	709.3	621.3	666.2	371.7	281.9	202.9	159.8	114.9	97.0
70°	10472.5	5146.5	499.2	411.2	554.9	330.4	219.1	197.5	140.1	93.4	75.4
72.5°	8091.4	3221.5	371.7	265.8	395.1	269.4	174.2	167.0	113.1	77.2	57.5
75°	5967.1	1837.0	262.2	192.1	260.4	204.7	129.3	118.5	97.0	73.6	52.1
77.5°	3115.5	919.4	163.4	147.2	149.0	127.5	93.4	86.2	89.8	73.6	48.5
80°	598.0	183.2	98.8	107.7	80.8	80.8	68.2	71.8	79.0	59.3	41.3
82.5°	249.6	39.5	53.9	61.1	50.3	55.7	55.7	57.5	55.7	43.1	30.5
85°	0.0	0.0	23.3	25.1	34.1	34.1	28.7	28.7	28.7	25.1	18.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.4	10.8	12.6	14.4	10.8	7.2
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: P637825  
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	750.6	747.0	752.4	756.0	759.6	759.6	756.0	752.4	747.0	752.4	747.0
5°	693.1	698.5	707.5	711.1	714.7	707.5	703.9	693.1	684.2	686.0	682.4
7.5°	648.2	653.6	664.4	671.6	671.6	668.0	657.2	646.5	632.1	632.1	630.3
10°	606.9	614.1	626.7	635.7	639.3	635.7	624.9	610.5	598.0	598.0	592.6
12.5°	572.8	581.8	596.2	608.7	612.3	608.7	598.0	583.6	569.2	569.2	565.6
15°	544.1	554.9	571.0	585.4	590.8	585.4	572.8	554.9	540.5	542.3	536.9
17.5°	517.2	526.1	547.7	563.9	569.2	563.9	547.7	524.3	510.0	513.6	510.0
20°	486.6	497.4	519.0	536.9	542.3	536.9	519.0	493.8	479.5	479.5	481.2
22.5°	454.3	465.1	486.6	499.2	506.4	501.0	483.0	459.7	445.3	445.3	447.1
25°	425.6	431.0	447.1	459.7	461.5	456.1	441.7	423.8	413.0	418.4	420.2
27.5°	398.6	398.6	405.8	413.0	411.2	405.8	400.4	386.1	384.3	389.7	395.1
30°	369.9	360.9	357.3	352.0	350.2	348.4	353.8	353.8	357.3	364.5	369.9
32.5°	344.8	326.8	310.7	294.5	285.5	292.7	307.1	319.6	332.2	343.0	348.4
35°	316.0	287.3	260.4	238.8	224.5	235.2	258.6	281.9	303.5	317.8	326.8
37.5°	287.3	246.0	213.7	186.8	176.0	185.0	210.1	242.4	274.7	292.7	305.3
40°	256.8	204.7	167.0	145.5	134.7	143.7	168.8	201.1	244.2	267.6	283.7
42.5°	226.3	168.8	134.7	113.1	107.7	113.1	132.9	165.2	211.9	240.6	262.2
45°	195.7	140.1	107.7	91.6	86.2	91.6	107.7	134.7	181.4	213.7	238.8
47.5°	168.8	118.5	89.8	75.4	71.8	77.2	89.8	113.1	152.6	185.0	213.7
50°	147.2	104.2	77.2	64.6	61.1	66.4	77.2	95.2	129.3	158.0	188.5
52.5°	132.9	97.0	68.2	55.7	53.9	57.5	66.4	80.8	109.5	134.7	163.4
55°	129.3	97.0	62.8	50.3	48.5	52.1	59.3	70.0	95.2	116.7	141.9
57.5°	132.9	104.2	59.3	43.1	41.3	44.9	52.1	61.1	82.6	100.6	123.9
60°	132.9	105.9	52.1	34.1	32.3	35.9	43.1	53.9	73.6	88.0	107.7
62.5°	120.3	97.0	43.1	26.9	23.3	26.9	35.9	44.9	64.6	79.0	95.2
65°	104.2	82.6	35.9	19.8	16.2	19.8	28.7	37.7	55.7	68.2	86.2
67.5°	84.4	62.8	26.9	14.4	10.8	14.4	21.5	30.5	46.7	59.3	77.2
70°	62.8	44.9	21.5	12.6	10.8	12.6	19.8	28.7	41.3	53.9	71.8
72.5°	46.7	30.5	18.0	12.6	9.0	12.6	18.0	26.9	39.5	52.1	68.2
75°	39.5	25.1	16.2	10.8	9.0	10.8	16.2	25.1	35.9	48.5	64.6
77.5°	37.7	23.3	14.4	9.0	7.2	9.0	14.4	21.5	32.3	44.9	62.8
80°	32.3	19.8	12.6	7.2	5.4	7.2	12.6	18.0	25.1	34.1	48.5
82.5°	25.1	16.2	9.0	3.6	1.8	3.6	9.0	10.8	16.2	19.8	28.7
85°	16.2	9.0	3.6	0.0	0.0	0.0	3.6	7.2	7.2	9.0	14.4
87.5°	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.6	5.4
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: P637825  
 CATALOG NUMBER: GWS-SA4D-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1	808.1
2.5°	757.8	759.6	763.2	768.6	781.1	791.9	802.7	817.0	824.2	824.2
5°	686.0	687.8	689.6	696.7	714.7	729.1	752.4	781.1	795.5	799.1
7.5°	630.3	633.9	637.5	642.9	660.8	680.6	711.1	765.0	791.9	797.3
10°	598.0	603.4	610.5	621.3	637.5	659.0	711.1	808.1	853.0	861.9
12.5°	572.8	581.8	589.0	601.6	621.3	655.4	759.6	930.2	1009.2	1030.7
15°	547.7	558.5	569.2	581.8	603.4	668.0	853.0	1149.3	1280.3	1296.5
17.5°	522.5	535.1	549.5	563.9	590.8	698.5	1000.2	1452.7	1635.9	1671.8
20°	493.8	510.0	529.7	547.7	578.2	747.0	1204.9	1813.7	2043.5	2120.7
22.5°	463.3	483.0	506.4	529.7	563.9	806.3	1452.7	2201.5	2523.0	2573.2
25°	438.2	457.9	479.5	502.8	540.5	878.1	1752.6	2682.8	2975.5	3024.0
27.5°	414.8	434.6	454.3	475.9	517.2	971.5	2113.5	3194.6	3499.8	3550.1
30°	389.7	413.0	432.8	454.3	495.6	1086.4	2530.1	3762.0	4051.1	4097.8
32.5°	368.1	391.5	411.2	432.8	479.5	1212.1	2968.3	4264.8	4500.0	4500.0
35°	350.2	375.3	389.7	418.4	466.9	1292.9	3383.1	4744.2	4922.0	4914.8
37.5°	330.4	360.9	371.7	391.5	450.7	1301.9	3772.8	5250.6	5381.7	5335.0
40°	310.7	343.0	359.1	369.9	432.8	1228.3	4200.2	5715.7	5827.1	5766.0
42.5°	292.7	317.8	341.2	353.8	422.0	1099.0	4543.1	6213.1	6346.0	6292.1
45°	274.7	296.3	310.7	334.0	429.2	1009.2	4837.6	6793.1	7026.6	6987.1
47.5°	256.8	274.7	283.7	319.6	477.7	967.9	5017.2	7691.0	8130.9	8098.6
50°	237.0	258.6	258.6	316.0	549.5	982.2	5173.4	8991.1	9671.7	9660.9
52.5°	217.3	240.6	237.0	343.0	605.2	1048.7	5351.2	10138.5	11321.9	11420.7
55°	197.5	219.1	222.7	396.9	637.5	1106.2	4663.4	10621.6	12731.5	13078.1
57.5°	176.0	188.5	231.6	438.2	626.7	1273.2	3194.6	10709.6	13631.2	14374.6
60°	152.6	163.4	262.2	429.2	592.6	1176.2	2011.2	9919.5	13503.7	14446.4
62.5°	132.9	150.8	276.5	378.9	603.4	1020.0	1282.1	8454.2	12288.0	13363.6
65°	116.7	145.5	251.4	343.0	610.5	691.3	865.5	6877.5	11101.0	12124.6
67.5°	104.2	161.6	206.5	305.3	524.3	486.6	594.4	5344.0	9334.1	10251.7
70°	95.2	165.2	168.8	262.2	405.8	312.5	391.5	3596.8	6434.0	7482.7
72.5°	86.2	122.1	127.5	210.1	262.2	190.3	253.2	2057.9	4690.4	5405.1
75°	82.6	82.6	88.0	136.5	145.5	138.3	163.4	1228.3	3363.4	3885.9
77.5°	77.2	62.8	55.7	88.0	79.0	98.8	97.0	545.9	1458.1	1576.6
80°	61.1	44.9	37.7	55.7	53.9	66.4	57.5	44.9	66.4	64.6
82.5°	37.7	28.7	26.9	34.1	30.5	34.1	26.9	7.2	7.2	7.2
85°	18.0	16.2	14.4	14.4	16.2	14.4	10.8	3.6	1.8	1.8
87.5°	9.0	9.0	7.2	5.4	7.2	7.2	5.4	1.8	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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