

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: P637330

Luminaire Tested: GWS-SA4C-750-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637330  
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-SA4C-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**

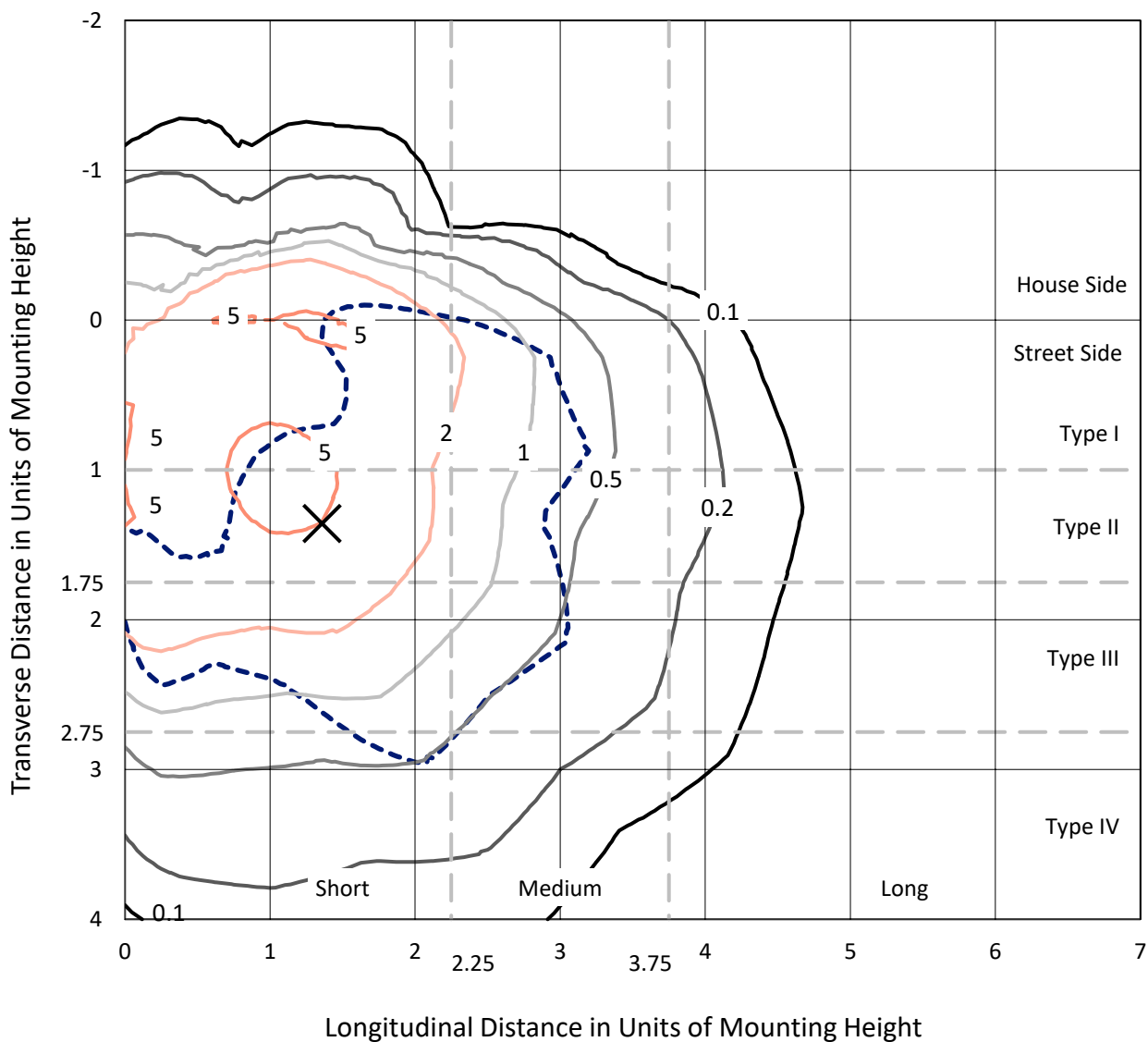
Lumens per Lamp: N/A  
Luminaire Lumens: 12322.8 lumens  
Efficiency: N/A  
Efficacy: 95.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

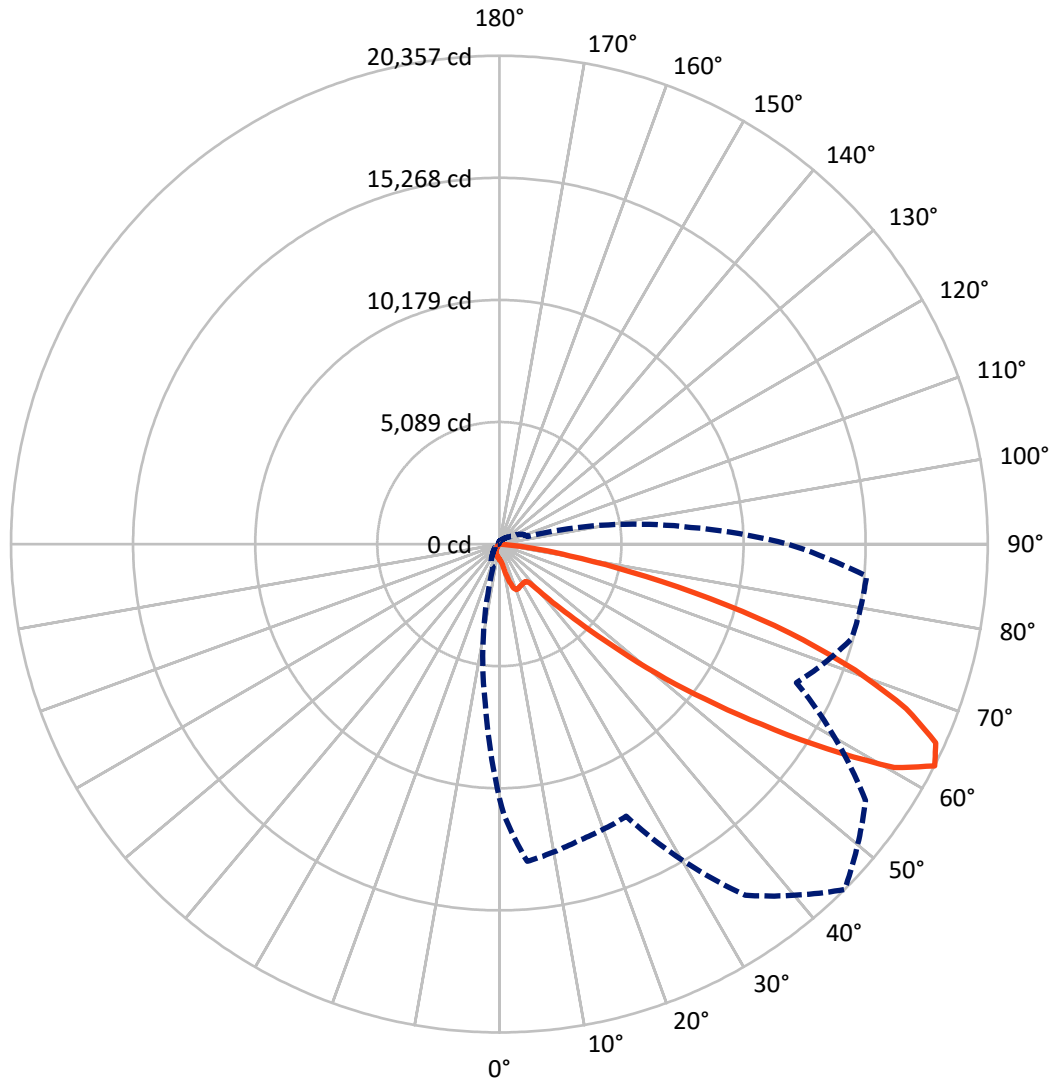
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	1520.6	0.0	1520.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	10802.2	0.0	10802.2
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	12322.8	0.0	12322.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.8	0.5
10°-20°	214.8	1.7
20°-30°	467.0	3.8
30°-40°	766.6	6.2
40°-50°	1409.2	11.4
50°-60°	3026.3	24.6
60°-70°	4064.8	33.0
70°-80°	2116.6	17.2
80°-90°	200.7	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°	12322.8	100.0
0°-180°	12322.8	100.0

**Coefficient of Utilization**



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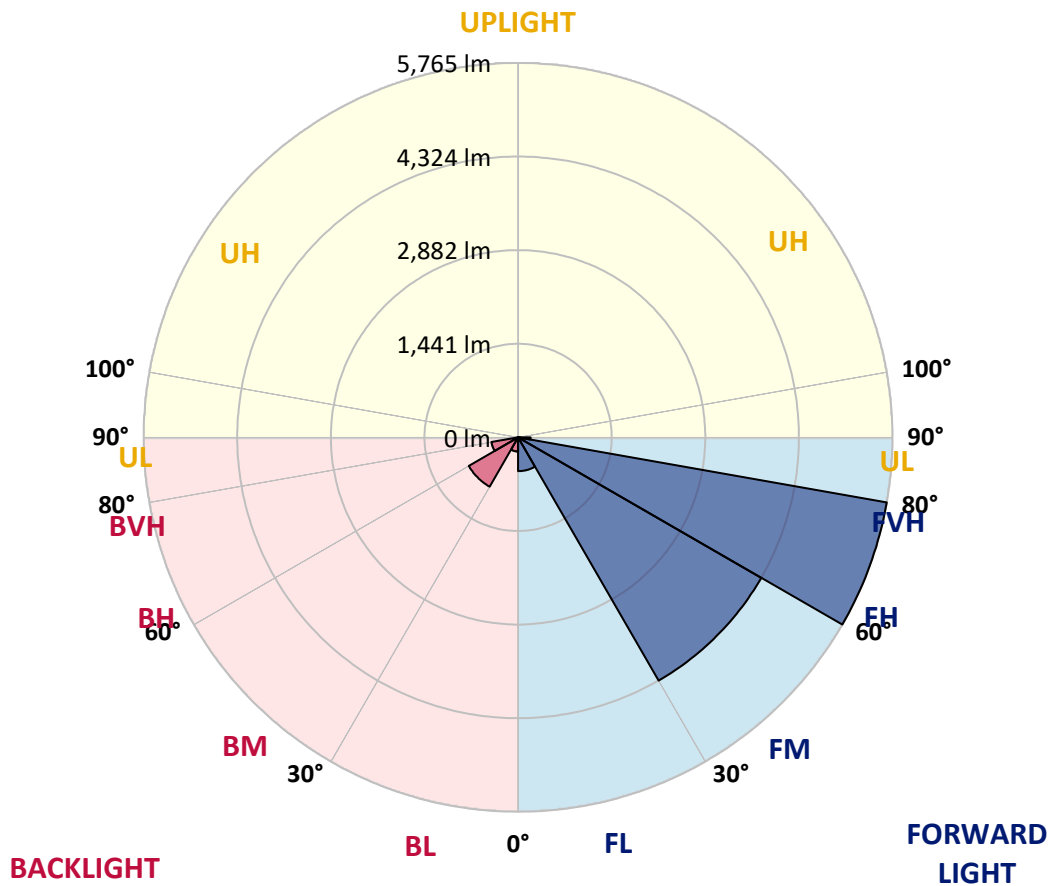
CATALOG NUMBER: GWS-SA4C-750-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.6	4.2			
FM (30°-60°)	4325.2	35.1			
FH (60°-80°)	5764.7	46.8			G3/7500
FVH (80°-90°)	191.7	1.6			G2/225
BL (0°-30°)	218.1	1.8	B1/500		
BM (30°-60°)	876.9	7.1	B1/1000		
BH (60°-80°)	416.7	3.4	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	653.3	656.2	659.0	669.0	676.1	681.8	683.2	679.0	669.0	659.0	644.8
5°	633.4	636.3	646.2	673.3	700.3	721.7	728.8	724.5	700.3	669.0	636.3
7.5°	632.0	637.7	661.9	718.8	777.2	821.3	832.7	822.7	777.2	714.5	647.6
10°	683.2	693.2	728.8	831.3	938.0	1016.3	1047.6	1004.9	932.3	818.5	708.9
12.5°	817.0	834.1	902.4	1051.9	1217.0	1320.9	1363.6	1310.9	1197.1	1032.0	858.3
15°	1027.7	1053.3	1155.8	1379.3	1574.3	1666.8	1681.0	1651.1	1518.8	1336.6	1103.1
17.5°	1325.2	1362.2	1521.6	1749.4	1890.3	1923.0	1918.7	1887.4	1790.6	1665.4	1444.7
20°	1681.0	1725.2	1881.7	2069.6	2083.9	2045.4	2024.1	2005.6	1972.8	1951.5	1779.2
22.5°	2039.7	2093.8	2257.5	2304.5	2176.4	2065.3	2012.7	2026.9	2075.3	2180.6	2110.9
25°	2397.0	2448.2	2602.0	2475.3	2219.1	2034.0	1967.1	2001.3	2116.6	2344.3	2434.0
27.5°	2814.1	2852.5	2943.6	2592.0	2226.2	2008.4	1942.9	1995.6	2136.5	2446.8	2788.4
30°	3248.2	3271.0	3226.8	2623.3	2202.0	1970.0	1918.7	1995.6	2170.7	2515.1	3054.6
32.5°	3567.0	3571.3	3427.5	2626.2	2189.2	1938.7	1896.0	1987.1	2203.4	2572.1	3312.2
35°	3895.8	3874.5	3619.7	2668.9	2223.3	1950.1	1913.0	2011.3	2254.7	2639.0	3538.6
37.5°	4228.9	4190.5	3834.6	2738.6	2311.6	2073.9	2051.1	2135.1	2337.2	2731.5	3787.7
40°	4570.5	4517.9	4058.1	2843.9	2508.0	2495.2	2573.5	2563.5	2563.5	2849.6	4043.9
42.5°	4987.6	4926.4	4388.3	3141.4	2966.4	3252.5	3466.0	3333.6	3088.8	3121.5	4376.9
45°	5538.4	5485.8	4960.5	3710.8	3685.2	4342.8	4630.3	4368.4	3759.2	3749.2	4933.5
47.5°	6419.5	6409.5	5872.9	4371.2	4564.8	5730.6	6285.7	5781.8	4523.5	4413.9	5986.8
50°	7657.9	7628.0	7010.2	5145.6	5611.0	7450.0	8440.7	7600.9	5447.3	5189.7	7397.4
52.5°	9052.8	9084.1	8603.0	5991.1	6722.7	9363.1	10742.4	9684.8	6450.8	6176.1	9172.4
55°	10366.6	10545.9	10419.3	6980.3	7808.7	11475.4	13270.3	11970.8	7693.4	7467.1	11162.3
57.5°	11394.3	11899.6	12787.8	8418.0	9085.5	13946.4	16092.9	14448.9	9143.9	9563.8	13871.0
60°	11451.2	12120.2	14182.7	11425.6	10728.1	16065.9	18911.2	16870.1	11424.2	13123.7	15993.3
62.5°	10592.9	11310.3	13274.6	12792.0	12517.3	17869.3	20357.4	18635.1	13667.4	15209.0	15364.1
65°	9610.8	10335.3	12261.1	11242.0	12309.5	17792.4	19990.2	18676.4	13871.0	13791.3	14238.2
67.5°	8126.2	8776.7	10520.3	9951.0	11345.9	16934.1	18293.5	17499.2	12779.2	12898.8	13098.1
70°	5931.3	6557.6	8176.0	8204.4	9908.3	15386.9	15718.5	15608.9	11768.6	11895.3	11326.0
72.5°	4284.4	4812.5	6208.8	6728.4	7909.8	12903.1	12673.9	13096.7	10097.6	10594.3	9096.9
75°	3080.2	3475.9	4554.9	5853.0	6270.1	9582.3	9072.7	10143.1	8102.0	9122.5	6839.4
77.5°	1249.7	1389.2	1792.1	3942.8	4120.7	6446.6	5554.1	7367.5	5776.1	5993.9	3315.1
80°	51.2	56.9	74.0	2035.5	2825.4	3626.8	2972.0	3938.5	3814.7	2414.1	782.9
82.5°	5.7	5.7	12.8	586.4	1236.9	2001.3	1400.6	2268.9	1931.5	1023.4	355.8
85°	1.4	1.4	2.8	66.9	290.4	320.3	189.3	696.0	898.2	418.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	12.8	14.2	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°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	644.8	637.7	629.1	620.6	616.3	604.9	600.7	597.8	595.0	596.4	596.4
5°	623.4	607.8	589.3	570.8	560.8	549.4	543.7	540.9	542.3	548.0	548.0
7.5°	620.6	590.7	550.9	526.7	515.3	506.7	501.0	498.2	499.6	506.7	509.6
10°	667.6	614.9	543.7	502.5	489.6	481.1	475.4	471.1	468.3	474.0	475.4
12.5°	768.6	696.0	577.9	499.6	476.8	465.5	461.2	452.6	448.4	451.2	452.6
15°	977.9	852.6	646.2	511.0	465.5	452.6	445.5	438.4	431.3	429.9	431.3
17.5°	1251.2	1071.8	750.1	538.0	456.9	441.3	431.3	421.3	411.4	409.9	408.5
20°	1589.9	1340.8	895.3	580.7	449.8	431.3	417.1	402.8	390.0	385.7	385.7
22.5°	1898.8	1665.4	1081.8	633.4	439.8	417.1	400.0	382.9	368.7	361.5	360.1
25°	2276.0	2009.8	1305.3	694.6	425.6	398.6	380.0	363.0	348.7	340.2	337.3
27.5°	2656.1	2372.8	1558.6	774.3	408.5	380.0	363.0	347.3	331.7	321.7	318.8
30°	3024.7	2764.2	1843.3	874.0	395.7	361.5	347.3	331.7	317.4	301.8	297.5
32.5°	3420.4	3164.2	2162.1	985.0	385.7	348.7	333.1	318.8	300.3	286.1	279.0
35°	3801.9	3577.0	2513.7	1093.2	375.8	337.3	320.3	306.0	286.1	270.4	260.5
37.5°	4186.2	3996.9	2881.0	1158.6	361.5	321.7	306.0	294.6	271.9	253.4	242.0
40°	4593.3	4431.0	3278.1	1131.6	348.7	304.6	296.1	283.3	257.6	236.3	222.0
42.5°	5040.2	4845.2	3682.3	1027.7	337.3	290.4	281.8	269.0	244.8	219.2	200.7
45°	5602.5	5299.3	4014.0	871.1	343.0	276.1	259.1	256.2	233.4	200.7	177.9
47.5°	6569.0	5996.8	4271.6	770.1	381.5	260.5	240.6	247.7	223.5	182.2	156.6
50°	8047.9	7152.6	4512.2	762.9	439.8	253.4	223.5	242.0	213.5	163.7	138.1
52.5°	9457.0	8326.9	4665.9	825.6	491.1	271.9	206.4	234.9	206.4	150.9	125.3
55°	10805.0	9004.4	4391.2	871.1	539.5	327.4	193.6	223.5	197.9	143.8	121.0
57.5°	12258.3	9306.2	3457.4	963.6	573.6	374.4	196.4	206.4	186.5	139.5	119.6
60°	12692.4	8920.4	2086.7	1084.6	555.1	388.6	217.8	183.6	170.8	131.0	115.3
62.5°	12017.7	8005.2	1231.2	987.8	539.5	367.2	249.1	169.4	155.2	119.6	106.8
65°	11008.5	6762.5	802.8	834.1	572.2	327.4	264.8	162.3	140.9	108.2	93.9
67.5°	9855.6	5447.3	562.2	492.5	528.1	294.6	223.5	160.8	126.7	91.1	76.9
70°	8301.2	4079.4	395.7	326.0	439.8	261.9	173.7	156.6	111.0	74.0	59.8
72.5°	6413.8	2553.6	294.6	210.7	313.1	213.5	138.1	132.4	89.7	61.2	45.5
75°	4729.9	1456.1	207.8	152.3	206.4	162.3	102.5	93.9	76.9	58.4	41.3
77.5°	2469.6	728.8	129.5	116.7	118.1	101.1	74.0	68.3	71.2	58.4	38.4
80°	474.0	145.2	78.3	85.4	64.1	64.1	54.1	56.9	62.6	47.0	32.7
82.5°	197.9	31.3	42.7	48.4	39.9	44.1	44.1	45.5	44.1	34.2	24.2
85°	0.0	0.0	18.5	19.9	27.0	27.0	22.8	22.8	22.8	19.9	14.2
87.5°	0.0	0.0	0.0	0.0	1.4	4.3	8.5	10.0	11.4	8.5	5.7
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°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	595.0	592.1	596.4	599.2	602.1	602.1	599.2	596.4	592.1	596.4	592.1
5°	549.4	553.7	560.8	563.7	566.5	560.8	558.0	549.4	542.3	543.7	540.9
7.5°	513.8	518.1	526.7	532.3	532.3	529.5	521.0	512.4	501.0	501.0	499.6
10°	481.1	486.8	496.8	503.9	506.7	503.9	495.3	484.0	474.0	474.0	469.7
12.5°	454.1	461.2	472.6	482.5	485.4	482.5	474.0	462.6	451.2	451.2	448.4
15°	431.3	439.8	452.6	464.0	468.3	464.0	454.1	439.8	428.4	429.9	425.6
17.5°	409.9	417.1	434.1	446.9	451.2	446.9	434.1	415.6	404.2	407.1	404.2
20°	385.7	394.3	411.4	425.6	429.9	425.6	411.4	391.4	380.0	380.0	381.5
22.5°	360.1	368.7	385.7	395.7	401.4	397.1	382.9	364.4	353.0	353.0	354.4
25°	337.3	341.6	354.4	364.4	365.8	361.5	350.2	335.9	327.4	331.7	333.1
27.5°	316.0	316.0	321.7	327.4	326.0	321.7	317.4	306.0	304.6	308.9	313.1
30°	293.2	286.1	283.3	279.0	277.6	276.1	280.4	280.4	283.3	288.9	293.2
32.5°	273.3	259.1	246.2	233.4	226.3	232.0	243.4	253.4	263.3	271.9	276.1
35°	250.5	227.7	206.4	189.3	177.9	186.5	205.0	223.5	240.6	251.9	259.1
37.5°	227.7	195.0	169.4	148.0	139.5	146.6	166.5	192.2	217.8	232.0	242.0
40°	203.5	162.3	132.4	115.3	106.8	113.9	133.8	159.4	193.6	212.1	224.9
42.5°	179.3	133.8	106.8	89.7	85.4	89.7	105.3	131.0	168.0	190.7	207.8
45°	155.2	111.0	85.4	72.6	68.3	72.6	85.4	106.8	143.8	169.4	189.3
47.5°	133.8	93.9	71.2	59.8	56.9	61.2	71.2	89.7	121.0	146.6	169.4
50°	116.7	82.6	61.2	51.2	48.4	52.7	61.2	75.4	102.5	125.3	149.5
52.5°	105.3	76.9	54.1	44.1	42.7	45.5	52.7	64.1	86.8	106.8	129.5
55°	102.5	76.9	49.8	39.9	38.4	41.3	47.0	55.5	75.4	92.5	112.4
57.5°	105.3	82.6	47.0	34.2	32.7	35.6	41.3	48.4	65.5	79.7	98.2
60°	105.3	84.0	41.3	27.0	25.6	28.5	34.2	42.7	58.4	69.7	85.4
62.5°	95.4	76.9	34.2	21.4	18.5	21.4	28.5	35.6	51.2	62.6	75.4
65°	82.6	65.5	28.5	15.7	12.8	15.7	22.8	29.9	44.1	54.1	68.3
67.5°	66.9	49.8	21.4	11.4	8.5	11.4	17.1	24.2	37.0	47.0	61.2
70°	49.8	35.6	17.1	10.0	8.5	10.0	15.7	22.8	32.7	42.7	56.9
72.5°	37.0	24.2	14.2	10.0	7.1	10.0	14.2	21.4	31.3	41.3	54.1
75°	31.3	19.9	12.8	8.5	7.1	8.5	12.8	19.9	28.5	38.4	51.2
77.5°	29.9	18.5	11.4	7.1	5.7	7.1	11.4	17.1	25.6	35.6	49.8
80°	25.6	15.7	10.0	5.7	4.3	5.7	10.0	14.2	19.9	27.0	38.4
82.5°	19.9	12.8	7.1	2.8	1.4	2.8	7.1	8.5	12.8	15.7	22.8
85°	12.8	7.1	2.8	0.0	0.0	0.0	2.8	5.7	5.7	7.1	11.4
87.5°	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	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: P637330  
 CATALOG NUMBER: GWS-SA4C-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5	640.5
2.5°	600.7	602.1	604.9	609.2	619.2	627.7	636.3	647.6	653.3	653.3
5°	543.7	545.2	546.6	552.3	566.5	577.9	596.4	619.2	630.6	633.4
7.5°	499.6	502.5	505.3	509.6	523.8	539.5	563.7	606.4	627.7	632.0
10°	474.0	478.3	484.0	492.5	505.3	522.4	563.7	640.5	676.1	683.2
12.5°	454.1	461.2	466.9	476.8	492.5	519.5	602.1	737.3	799.9	817.0
15°	434.1	442.7	451.2	461.2	478.3	529.5	676.1	911.0	1014.9	1027.7
17.5°	414.2	424.2	435.6	446.9	468.3	553.7	792.8	1151.5	1296.7	1325.2
20°	391.4	404.2	419.9	434.1	458.3	592.1	955.1	1437.6	1619.8	1681.0
22.5°	367.2	382.9	401.4	419.9	446.9	639.1	1151.5	1745.1	1999.9	2039.7
25°	347.3	363.0	380.0	398.6	428.4	696.0	1389.2	2126.6	2358.6	2397.0
27.5°	328.8	344.5	360.1	377.2	409.9	770.1	1675.3	2532.2	2774.2	2814.1
30°	308.9	327.4	343.0	360.1	392.9	861.2	2005.6	2982.0	3211.2	3248.2
32.5°	291.8	310.3	326.0	343.0	380.0	960.8	2352.9	3380.6	3567.0	3567.0
35°	277.6	297.5	308.9	331.7	370.1	1024.8	2681.7	3760.6	3901.5	3895.8
37.5°	261.9	286.1	294.6	310.3	357.3	1032.0	2990.6	4162.0	4265.9	4228.9
40°	246.2	271.9	284.7	293.2	343.0	973.6	3329.3	4530.7	4618.9	4570.5
42.5°	232.0	251.9	270.4	280.4	334.5	871.1	3601.2	4924.9	5030.3	4987.6
45°	217.8	234.9	246.2	264.8	340.2	799.9	3834.6	5384.7	5569.7	5538.4
47.5°	203.5	217.8	224.9	253.4	378.6	767.2	3977.0	6096.4	6445.1	6419.5
50°	187.9	205.0	205.0	250.5	435.6	778.6	4100.8	7126.9	7666.4	7657.9
52.5°	172.2	190.7	187.9	271.9	479.7	831.3	4241.7	8036.5	8974.5	9052.8
55°	156.6	173.7	176.5	314.6	505.3	876.8	3696.6	8419.4	10091.9	10366.6
57.5°	139.5	149.5	183.6	347.3	496.8	1009.2	2532.2	8489.1	10805.0	11394.3
60°	121.0	129.5	207.8	340.2	469.7	932.3	1594.2	7862.8	10703.9	11451.2
62.5°	105.3	119.6	219.2	300.3	478.3	808.5	1016.3	6701.3	9740.3	10592.9
65°	92.5	115.3	199.3	271.9	484.0	548.0	686.1	5451.6	8799.4	9610.8
67.5°	82.6	128.1	163.7	242.0	415.6	385.7	471.1	4236.0	7398.8	8126.2
70°	75.4	131.0	133.8	207.8	321.7	247.7	310.3	2851.1	5100.0	5931.3
72.5°	68.3	96.8	101.1	166.5	207.8	150.9	200.7	1631.2	3717.9	4284.4
75°	65.5	65.5	69.7	108.2	115.3	109.6	129.5	973.6	2666.0	3080.2
77.5°	61.2	49.8	44.1	69.7	62.6	78.3	76.9	432.7	1155.8	1249.7
80°	48.4	35.6	29.9	44.1	42.7	52.7	45.5	35.6	52.7	51.2
82.5°	29.9	22.8	21.4	27.0	24.2	27.0	21.4	5.7	5.7	5.7
85°	14.2	12.8	11.4	11.4	12.8	11.4	8.5	2.8	1.4	1.4
87.5°	7.1	7.1	5.7	4.3	5.7	5.7	4.3	1.4	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

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