

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: P637328

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

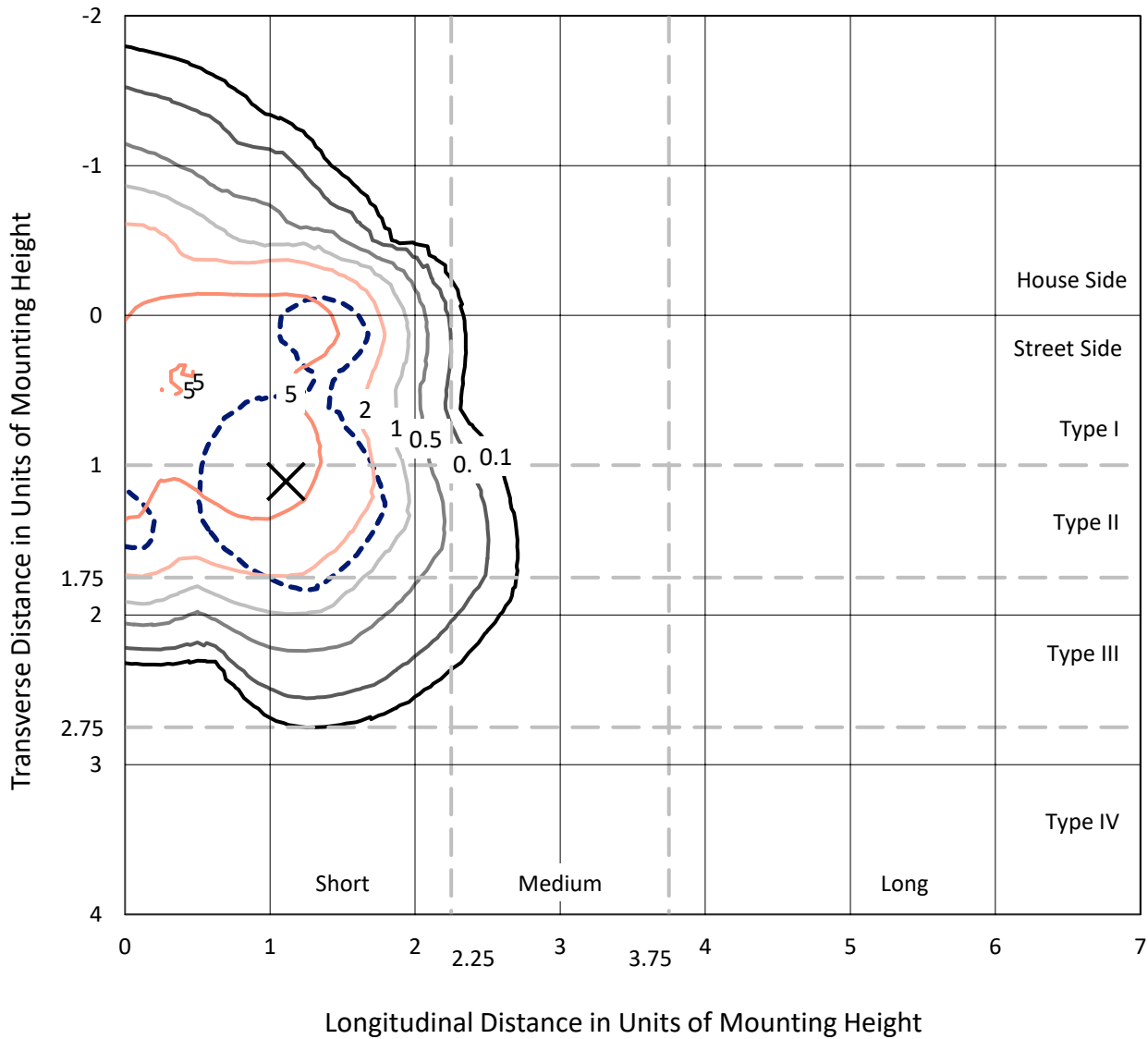
Lumens per Lamp: N/A  
Luminaire Lumens: 10593.3 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

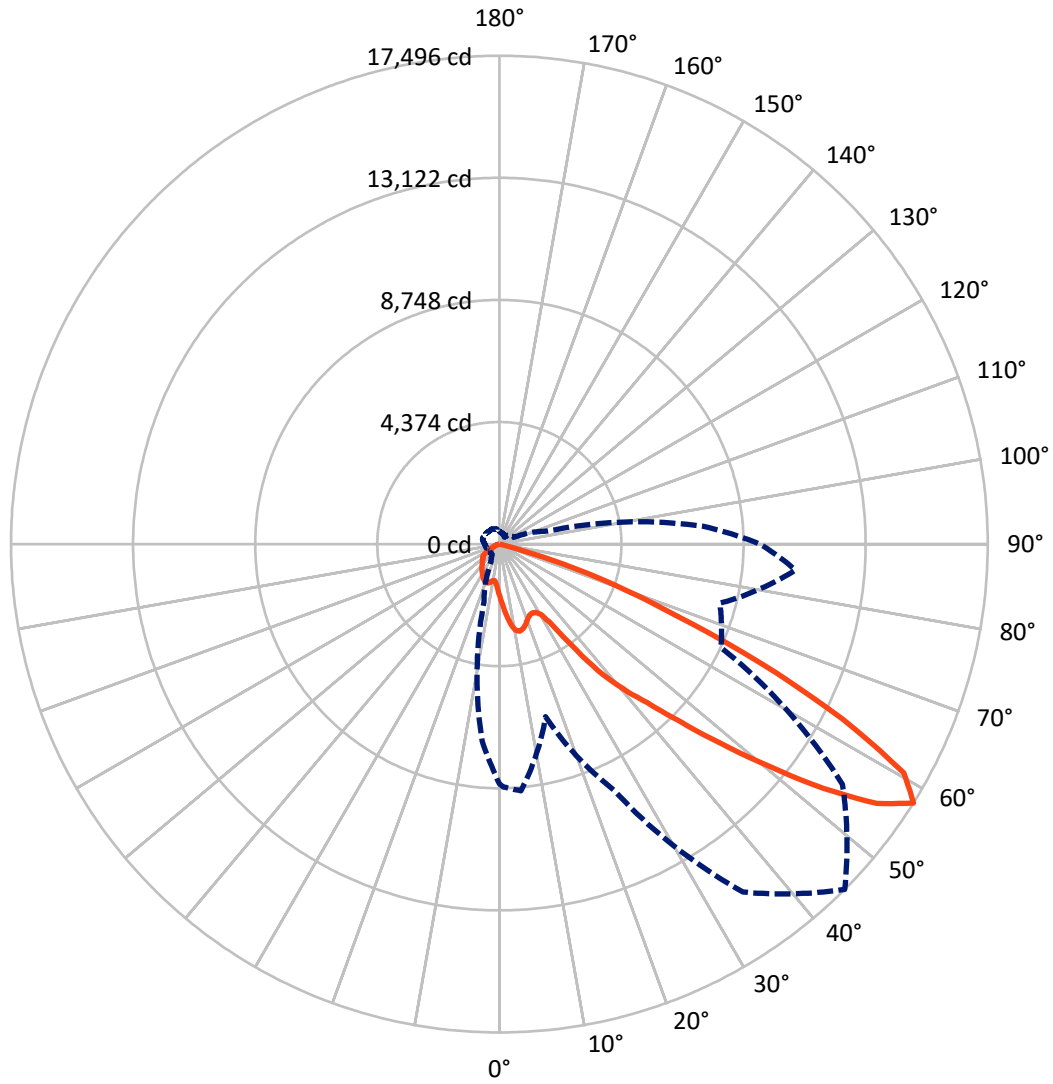
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2372.1	0.0	2372.1
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	8221.2	0.0	8221.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	10593.3	0.0	10593.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.2	1.7
10°-20°	592.5	5.6
20°-30°	962.5	9.1
30°-40°	1487.3	14.0
40°-50°	2384.8	22.5
50°-60°	3259.4	30.8
60°-70°	1578.6	14.9
70°-80°	144.5	1.4
80°-90°	0.4	0.0
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°	10593.3	100.0
0°-180°	10593.3	100.0

**Coefficient of Utilization**



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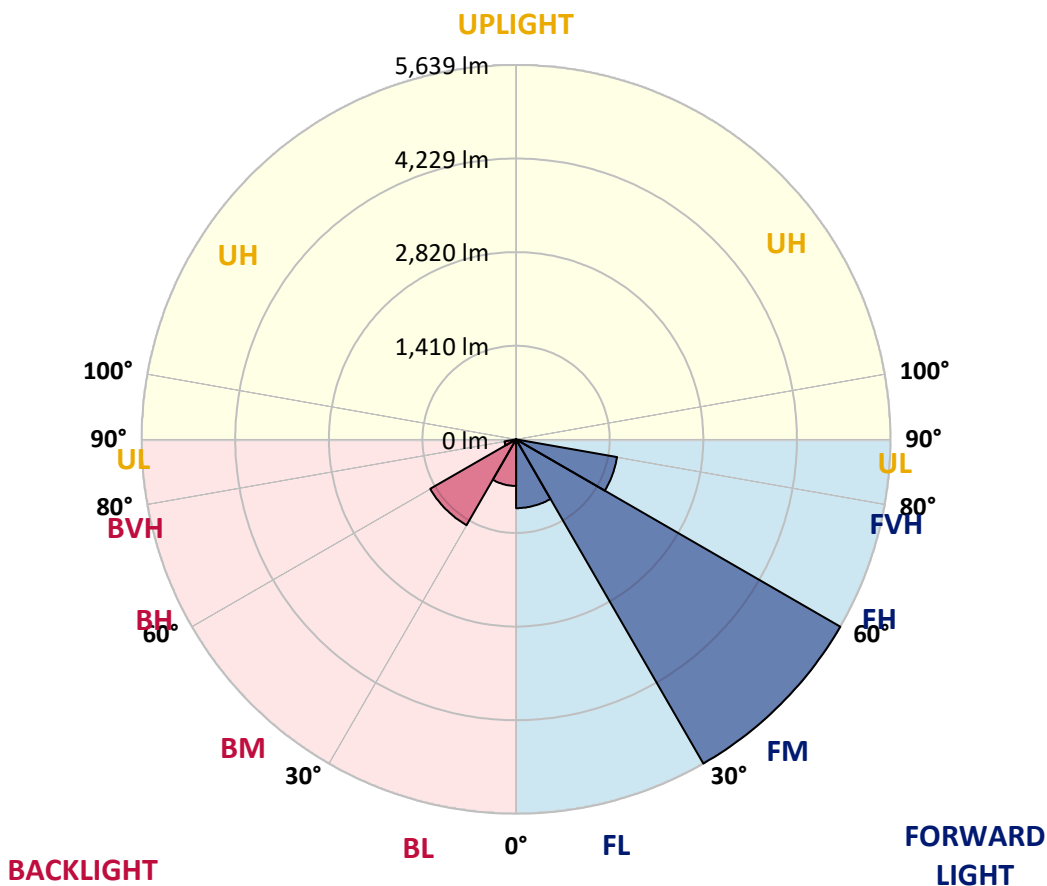
CATALOG NUMBER: GWS-SA4C-750-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.3	9.8			
FM (30°-60°)	5639.1	53.2			
FH (60°-80°)	1545.4	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	701.9	6.6	B2/1000		
BM (30°-60°)	1492.4	14.1	B2/2500		
BH (60°-80°)	177.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	2017.0	2029.9	2051.2	2096.8	2135.2	2160.8	2172.2	2169.4	2153.7	2142.3	2119.5
5°	2233.4	2233.4	2274.7	2378.6	2458.3	2508.1	2533.8	2518.1	2486.8	2437.0	2360.1
7.5°	2422.7	2429.8	2499.6	2647.6	2768.6	2839.8	2881.1	2872.5	2817.0	2721.7	2567.9
10°	2570.8	2579.3	2671.8	2852.6	2995.0	3067.6	3128.8	3134.5	3073.3	2946.6	2770.1
12.5°	2714.5	2723.1	2819.9	2993.5	3118.8	3148.7	3202.8	3224.1	3208.5	3118.8	2935.2
15°	2869.7	2889.6	2972.2	3101.7	3154.4	3118.8	3154.4	3192.8	3245.5	3236.9	3071.8
17.5°	3022.0	3036.2	3120.2	3165.8	3107.4	3014.9	3032.0	3077.5	3197.1	3313.8	3207.1
20°	3162.9	3182.9	3252.6	3192.8	3016.3	2872.5	2874.0	2933.8	3116.0	3360.8	3345.1
22.5°	3311.0	3340.9	3390.7	3222.7	2932.3	2760.1	2767.2	2821.3	3051.9	3404.9	3501.7
25°	3504.6	3533.0	3565.8	3296.7	2905.3	2704.6	2731.6	2781.4	3051.9	3480.4	3695.3
27.5°	3766.5	3786.4	3787.8	3434.8	2952.3	2713.1	2770.1	2827.0	3143.0	3631.2	3954.4
30°	4095.3	4126.6	4085.3	3649.8	3098.9	2827.0	2911.0	2982.1	3339.4	3886.0	4335.9
32.5°	4495.3	4539.4	4483.9	3968.6	3404.9	3219.9	3372.2	3413.5	3652.6	4254.7	4768.6
35°	4965.0	5002.0	4942.3	4409.9	4119.5	4153.7	4429.8	4377.1	4281.8	4708.8	5273.9
37.5°	5480.3	5514.5	5399.2	5078.9	5175.7	5323.7	5765.0	5584.2	5276.8	5293.8	5822.0
40°	5952.9	5989.9	5809.1	5806.3	6005.6	6276.0	6808.4	6559.3	6140.8	6059.7	6335.8
42.5°	6442.6	6468.2	6304.5	6193.5	6646.1	7202.7	7766.4	7430.5	6713.0	6624.8	6979.2
45°	7141.5	7195.6	6903.8	6384.2	7222.6	8268.9	9054.6	8398.4	7103.1	7031.9	7964.3
47.5°	8169.2	8209.1	7614.1	6503.8	7759.3	9597.0	10664.6	9653.9	7446.1	7283.8	9310.9
50°	9019.0	9046.1	8267.5	6634.7	8330.1	11029.0	12499.4	11142.8	7831.9	7700.9	10567.8
52.5°	9645.4	9747.9	9125.8	6903.8	9080.3	12712.9	14530.7	12906.5	8434.0	8506.6	11609.7
55°	9774.9	9914.4	9712.3	7068.9	9740.7	14428.2	16406.8	14485.1	9034.7	9117.3	11959.9
57.5°	8590.6	8701.6	8869.6	6402.7	9725.1	15213.9	17495.8	15009.0	8761.4	8176.4	10648.9
60°	6435.5	6512.3	6817.0	4893.9	8943.6	14519.3	16647.4	14117.9	7661.1	6239.0	8113.7
62.5°	3816.3	3850.5	4236.2	3170.0	7423.3	12503.7	13806.1	12182.0	6054.0	4196.4	4969.3
65°	1464.7	1450.5	1745.2	1564.4	5459.0	9960.0	10268.8	9286.7	4153.7	1923.1	1894.6
67.5°	226.3	216.4	291.8	462.6	3937.3	6902.4	6775.7	6693.1	2602.1	448.4	391.5
70°	51.2	51.2	62.6	136.7	2405.6	4055.4	4340.1	4138.0	1665.4	95.4	51.2
72.5°	24.2	24.2	29.9	58.4	871.2	1671.1	1947.3	1917.4	540.9	31.3	18.5
75°	8.5	10.0	10.0	12.8	52.7	86.8	199.3	142.3	34.2	0.0	0.0
77.5°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	2069.7	2059.7	2022.7	1972.9	1924.5	1881.8	1837.7	1785.0	1746.6	1702.5	1688.2
5°	2300.3	2237.7	2136.6	2031.3	1934.5	1851.9	1772.2	1686.8	1624.2	1561.5	1540.2
7.5°	2495.3	2402.8	2239.1	2081.1	1948.7	1832.0	1716.7	1600.0	1508.9	1434.8	1412.1
10°	2670.4	2563.7	2344.4	2149.4	1982.9	1847.7	1708.2	1561.5	1443.4	1355.1	1333.8
12.5°	2821.3	2697.5	2434.1	2200.7	1997.1	1842.0	1706.7	1590.0	1483.2	1382.2	1355.1
15°	2948.0	2811.3	2509.6	2234.8	1975.8	1770.8	1652.6	1634.1	1625.6	1514.6	1461.9
17.5°	3071.8	2918.1	2570.8	2250.5	1916.0	1645.5	1560.1	1644.1	1733.8	1661.2	1594.3
20°	3201.4	3026.3	2633.4	2253.3	1816.3	1504.6	1490.4	1622.7	1736.6	1713.8	1651.2
22.5°	3353.7	3161.5	2711.7	2251.9	1691.1	1385.0	1439.1	1581.5	1674.0	1672.6	1622.7
25°	3574.3	3332.3	2817.0	2260.5	1554.4	1292.5	1382.2	1511.7	1587.2	1584.3	1543.0
27.5°	3810.6	3535.9	2953.7	2281.8	1437.7	1238.4	1315.3	1416.3	1481.8	1479.0	1443.4
30°	4142.3	3770.7	3084.6	2283.2	1353.7	1209.9	1241.3	1311.0	1373.6	1366.5	1339.5
32.5°	4545.1	4035.5	3194.2	2202.1	1301.0	1182.9	1164.4	1200.0	1248.4	1238.4	1231.3
35°	5031.9	4350.1	3288.2	2024.2	1219.9	1128.8	1079.0	1086.1	1120.3	1126.0	1123.1
37.5°	5587.1	4724.5	3404.9	1789.3	1110.3	1050.5	983.6	977.9	997.8	1016.4	1030.6
40°	6135.1	5145.8	3562.9	1551.6	1010.7	950.9	886.8	872.6	881.1	913.9	943.8
42.5°	6751.5	5634.1	3733.7	1348.0	942.3	841.3	780.1	753.0	777.2	829.9	865.5
45°	7639.7	6318.7	3900.3	1185.7	913.9	744.5	661.9	659.1	686.1	754.4	794.3
47.5°	8886.7	7204.1	4009.9	1059.1	912.4	669.0	570.8	587.9	619.2	686.1	731.7
50°	10102.3	8313.0	3888.9	962.3	882.5	619.2	502.5	536.6	568.0	626.3	673.3
52.5°	10835.4	8909.4	3417.7	871.2	790.0	596.4	435.6	495.4	501.1	553.7	603.5
55°	10758.5	8523.7	2617.7	730.2	653.4	563.7	365.8	447.0	449.8	489.7	532.4
57.5°	9337.9	7318.0	1797.8	592.2	491.1	465.5	301.8	377.2	404.3	428.5	459.8
60°	6959.3	5339.4	801.4	481.1	311.7	314.6	257.6	284.7	326.0	354.4	381.5
62.5°	4101.0	3071.8	326.0	289.0	172.2	197.9	207.8	207.8	233.4	254.8	271.9
65°	1550.1	1074.7	132.4	145.2	89.7	92.5	122.4	150.9	170.8	189.3	212.1
67.5°	271.9	187.9	68.3	54.1	52.7	47.0	62.6	98.2	109.6	123.8	133.8
70°	45.6	38.4	28.5	27.0	24.2	25.6	41.3	69.7	76.9	81.1	85.4
72.5°	12.8	11.4	8.5	7.1	5.7	7.1	25.6	54.1	56.9	59.8	64.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	10.0	38.4	41.3	42.7	47.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	11.4	14.2	11.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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





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

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1679.7	1651.2	1635.6	1627.0	1627.0	1615.6	1602.8	1598.5	1617.1	1617.1	1648.4
5°	1513.1	1490.4	1464.7	1449.1	1424.9	1429.2	1414.9	1413.5	1432.0	1440.5	1473.3
7.5°	1397.8	1369.4	1353.7	1343.7	1330.9	1325.2	1312.4	1308.2	1318.1	1332.4	1363.7
10°	1321.0	1316.7	1315.3	1322.4	1322.4	1315.3	1303.9	1296.8	1299.6	1326.7	1362.3
12.5°	1340.9	1349.4	1352.3	1363.7	1369.4	1363.7	1355.1	1358.0	1376.5	1426.3	1479.0
15°	1427.7	1420.6	1417.8	1423.5	1427.7	1422.0	1419.2	1440.5	1504.6	1575.8	1635.6
17.5°	1520.3	1474.7	1454.8	1454.8	1457.6	1454.8	1457.6	1498.9	1602.8	1674.0	1718.1
20°	1567.2	1483.2	1451.9	1444.8	1450.5	1451.9	1461.9	1508.9	1622.7	1672.6	1682.5
22.5°	1553.0	1447.7	1412.1	1406.4	1412.1	1417.8	1427.7	1467.6	1574.3	1600.0	1595.7
25°	1481.8	1377.9	1349.4	1349.4	1362.3	1360.8	1365.1	1393.6	1481.8	1497.5	1490.4
27.5°	1392.1	1293.9	1269.7	1284.0	1295.3	1292.5	1293.9	1318.1	1383.6	1387.9	1380.8
30°	1301.0	1215.6	1192.9	1209.9	1225.6	1222.8	1224.2	1248.4	1289.7	1285.4	1275.4
32.5°	1208.5	1145.9	1128.8	1138.8	1163.0	1160.1	1165.8	1191.4	1207.1	1188.6	1177.2
35°	1123.1	1090.4	1077.6	1083.3	1101.8	1106.0	1116.0	1133.1	1133.1	1110.3	1090.4
37.5°	1043.4	1039.1	1030.6	1023.5	1040.5	1053.4	1067.6	1087.5	1059.1	1026.3	1007.8
40°	969.4	987.9	976.5	958.0	968.0	986.5	1014.9	1030.6	996.4	963.7	932.4
42.5°	901.1	932.4	928.1	905.3	913.9	930.9	963.7	976.5	936.6	899.6	869.7
45°	835.6	879.7	882.5	854.1	862.6	879.7	918.1	922.4	871.2	831.3	809.9
47.5°	778.6	827.0	828.5	807.1	809.9	834.1	869.7	871.2	812.8	775.8	748.7
50°	724.5	780.1	784.3	765.8	768.7	797.1	827.0	821.3	758.7	720.3	696.1
52.5°	659.1	734.5	744.5	735.9	747.3	770.1	788.6	768.7	696.1	657.6	636.3
55°	587.9	686.1	707.5	701.8	714.6	733.1	737.4	724.5	633.4	595.0	575.1
57.5°	505.3	565.1	602.1	590.7	600.7	619.2	632.0	622.1	553.7	523.8	506.8
60°	418.5	458.4	466.9	448.4	439.8	472.6	502.5	489.7	431.3	412.8	392.9
62.5°	306.0	351.6	357.3	333.1	323.1	358.7	384.3	371.5	307.5	287.5	271.9
65°	244.8	287.5	298.9	276.2	270.5	297.5	313.2	281.8	236.3	214.9	197.9
67.5°	160.9	195.0	224.9	223.5	212.1	220.6	209.2	183.6	150.9	139.5	128.1
70°	99.6	119.6	138.1	145.2	143.8	140.9	125.3	106.8	96.8	92.5	86.8
72.5°	76.9	96.8	111.0	115.3	116.7	112.5	99.6	82.6	72.6	66.9	62.6
75°	56.9	72.6	84.0	89.7	92.5	89.7	76.9	65.5	55.5	51.2	47.0
77.5°	19.9	24.2	29.9	32.7	31.3	29.9	27.0	27.0	21.4	19.9	17.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P637328

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9	1861.9
2.5°	1684.0	1709.6	1756.6	1799.3	1844.8	1891.8	1943.0	1995.7	2019.9	2017.0
5°	1523.1	1578.6	1655.5	1739.5	1833.4	1934.5	2046.9	2162.2	2212.1	2233.4
7.5°	1422.0	1500.3	1601.4	1708.2	1832.0	1975.8	2145.2	2325.9	2398.5	2422.7
10°	1434.8	1525.9	1609.9	1713.8	1846.2	2032.7	2243.4	2458.3	2543.7	2570.8
12.5°	1538.8	1558.7	1581.5	1666.9	1833.4	2075.4	2333.1	2589.3	2687.5	2714.5
15°	1632.7	1540.2	1497.5	1575.8	1787.9	2105.3	2424.2	2730.2	2838.4	2869.7
17.5°	1637.0	1497.5	1402.1	1463.3	1713.8	2118.1	2513.8	2874.0	2992.1	3022.0
20°	1584.3	1450.5	1328.1	1329.5	1612.8	2115.3	2587.9	3003.5	3135.9	3162.9
22.5°	1507.4	1395.0	1268.3	1224.2	1504.6	2109.6	2669.0	3141.6	3285.3	3311.0
25°	1422.0	1323.8	1211.4	1144.5	1396.4	2115.3	2782.9	3322.4	3480.4	3504.6
27.5°	1329.5	1245.5	1167.2	1113.1	1305.3	2136.6	2919.5	3553.0	3740.9	3766.5
30°	1232.7	1170.1	1138.8	1106.0	1248.4	2142.3	3067.6	3822.0	4059.7	4095.3
32.5°	1137.3	1103.2	1104.6	1110.3	1194.3	2102.5	3202.8	4120.9	4438.3	4495.3
35°	1049.1	1039.1	1067.6	1096.1	1116.0	2000.0	3320.9	4473.9	4906.7	4965.0
37.5°	973.6	982.2	1017.8	1046.2	1030.6	1854.8	3477.5	4915.2	5430.5	5480.3
40°	901.1	922.4	963.7	976.5	965.1	1685.4	3665.4	5340.8	5884.6	5952.9
42.5°	834.1	849.8	908.2	911.0	946.6	1513.1	3846.2	5799.2	6407.0	6442.6
45°	780.1	777.2	837.0	855.5	970.8	1322.4	4022.7	6409.8	7090.3	7141.5
47.5°	727.4	724.5	738.8	822.8	980.8	1145.9	4197.8	7303.8	8081.0	8169.2
50°	677.6	681.8	637.7	807.1	926.7	1010.7	4277.5	8130.8	8982.0	9019.0
52.5°	633.4	617.8	540.9	755.9	811.4	882.5	4051.2	8506.6	9540.0	9645.4
55°	570.8	484.0	445.5	613.5	640.6	770.1	3318.1	8288.8	9588.4	9774.9
57.5°	488.2	380.1	378.6	452.7	452.7	714.6	2125.2	7081.7	8263.2	8590.6
60°	375.8	294.7	313.2	314.6	290.4	521.0	1192.9	5130.2	6109.5	6435.5
62.5°	267.6	224.9	236.3	187.9	166.5	260.5	572.2	2953.7	3770.7	3816.3
65°	179.4	152.3	123.8	103.9	102.5	111.0	236.3	1067.6	1298.2	1464.7
67.5°	118.1	92.5	65.5	65.5	74.0	74.0	89.7	176.5	247.7	226.3
70°	76.9	64.1	41.3	39.9	48.4	48.4	45.6	48.4	51.2	51.2
72.5°	56.9	48.4	24.2	21.4	27.0	28.5	25.6	24.2	24.2	24.2
75°	42.7	34.2	14.2	10.0	12.8	17.1	14.2	10.0	10.0	8.5
77.5°	17.1	12.8	5.7	4.3	7.1	10.0	8.5	4.3	2.8	2.8
80°	1.4	2.8	2.8	2.8	4.3	5.7	7.1	2.8	1.4	1.4
82.5°	0.0	1.4	1.4	1.4	2.8	4.3	5.7	2.8	1.4	1.4
85°	0.0	0.0	0.0	0.0	2.8	4.3	2.8	1.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.4	4.3	2.8	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

(END OF REPORT)