

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: P636829

Luminaire Tested: GWS-SA4B-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

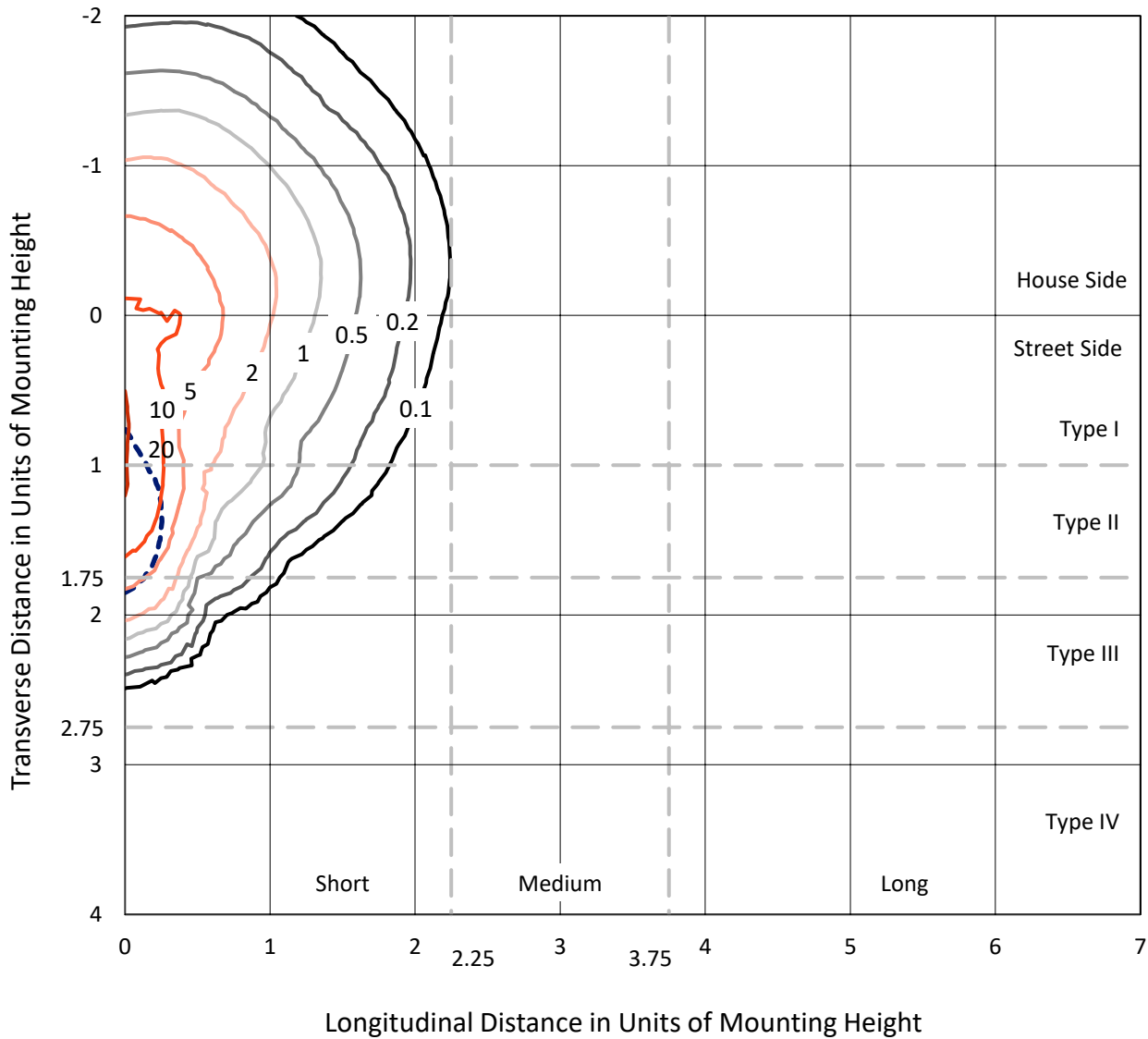
Lumens per Lamp: N/A  
Luminaire Lumens: 7939.3 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

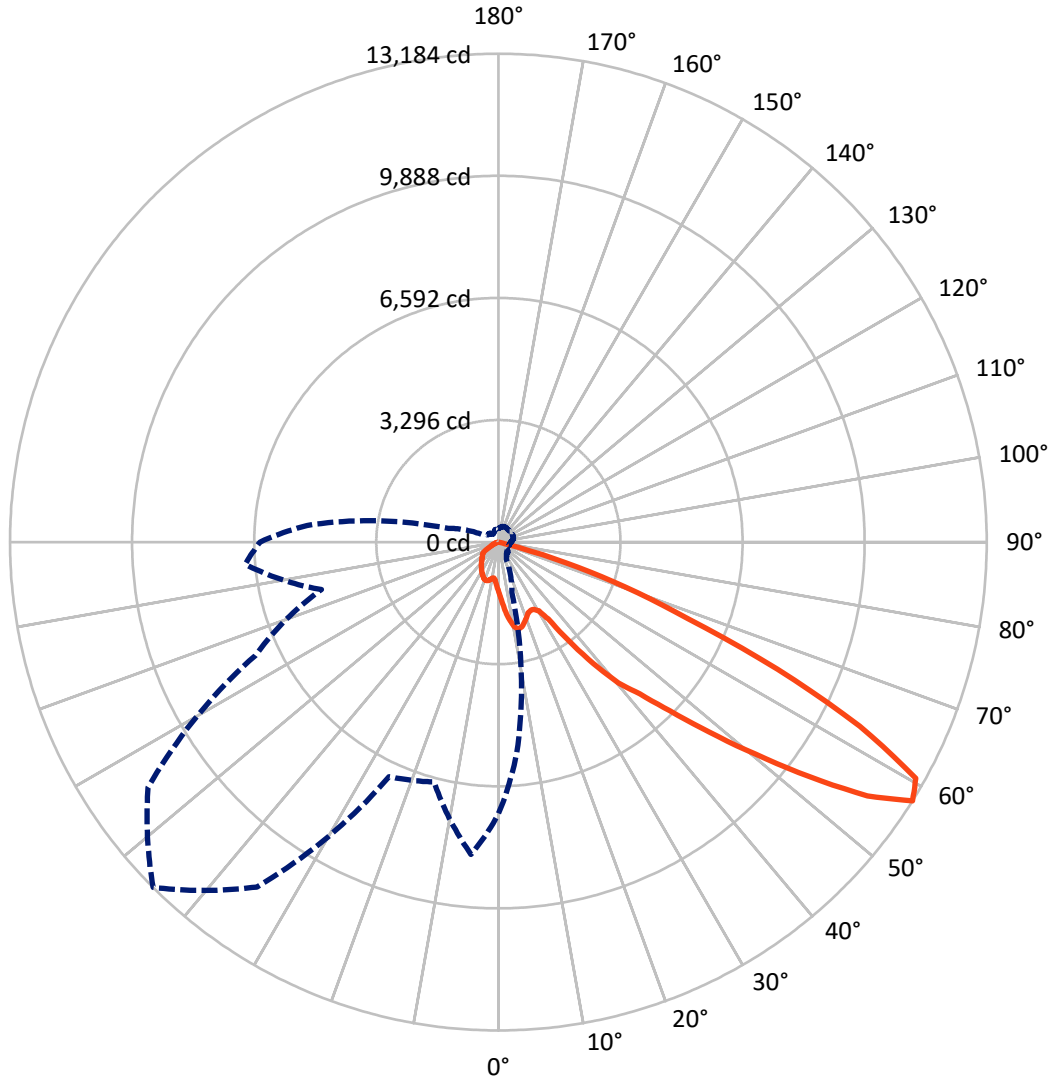
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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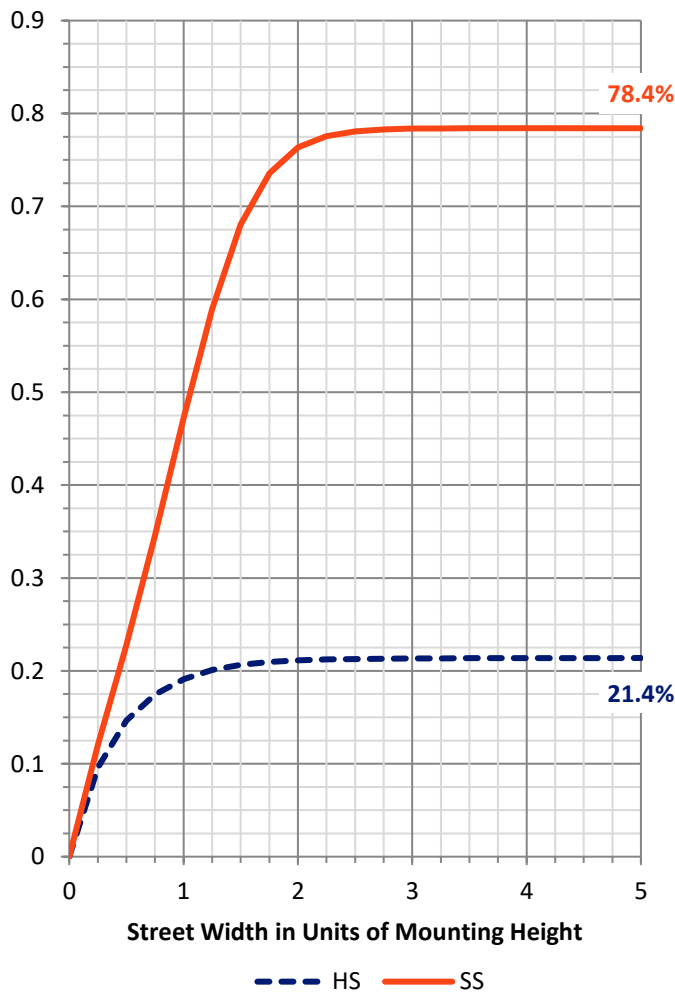
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1710.4	0.0	1710.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	6228.9	0.0	6228.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	7939.3	0.0	7939.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	1.7
10°-20°	438.7	5.5
20°-30°	712.0	9.0
30°-40°	1092.8	13.8
40°-50°	1745.2	22.0
50°-60°	2443.7	30.8
60°-70°	1252.9	15.8
70°-80°	120.6	1.5
80°-90°	0.0	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°	7939.3	100.0
0°-180°	7939.3	100.0

**Coefficient of Utilization**



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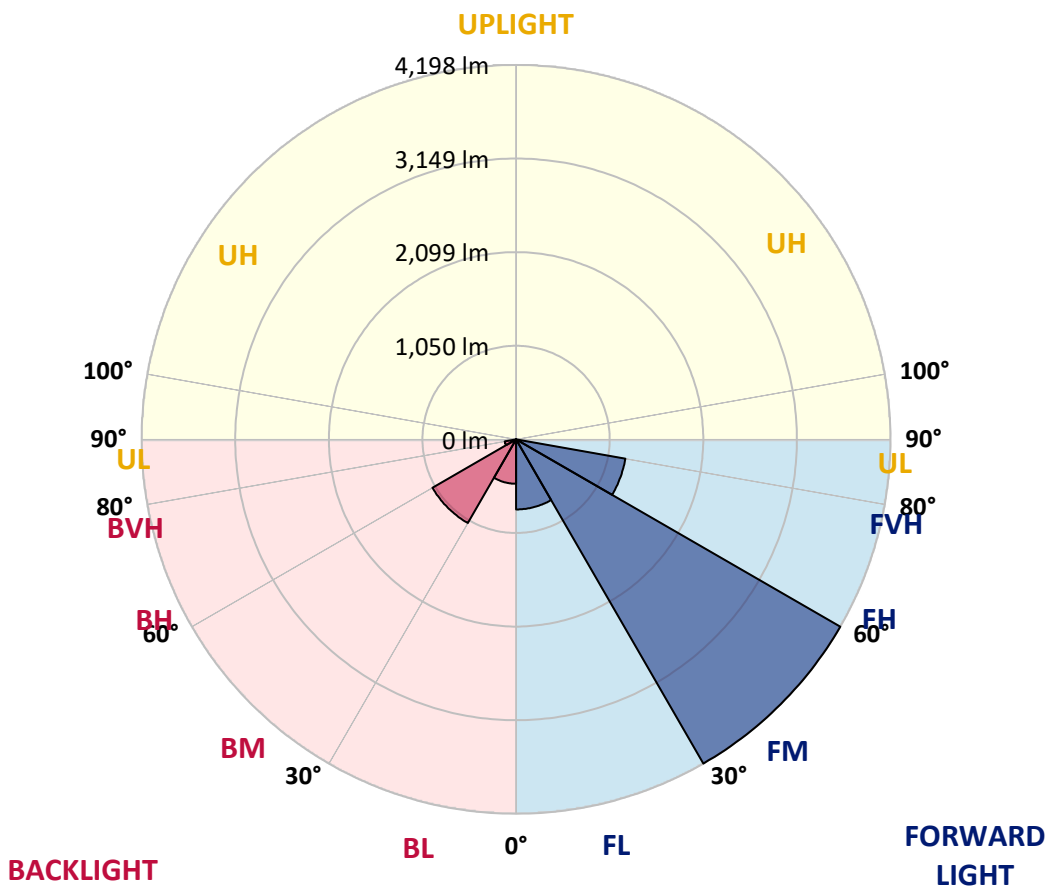
CATALOG NUMBER: GWS-SA4B-750-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	786.0	9.9			
FM (30°-60°)	4198.5	52.9			
FH (60°-80°)	1244.4	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	498.0	6.3	B1/500		
BM (30°-60°)	1083.2	13.6	B2/2500		
BH (60°-80°)	129.2	1.6	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°	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0
2.5°	1498.7	1495.5	1484.9	1448.8	1426.5	1391.5	1366.0	1333.1	1297.0	1274.7	1252.4
5°	1657.9	1649.4	1620.7	1537.9	1474.2	1405.3	1350.1	1289.6	1224.8	1182.4	1143.1
7.5°	1810.7	1798.0	1759.8	1619.7	1523.1	1424.4	1345.8	1257.7	1166.4	1102.8	1053.9
10°	1960.4	1931.7	1871.2	1699.3	1568.7	1449.8	1357.5	1256.7	1149.5	1068.8	1014.7
12.5°	2083.5	2062.2	1979.5	1774.6	1606.9	1455.1	1341.6	1248.2	1176.0	1121.9	1072.0
15°	2189.6	2166.3	2087.7	1842.5	1639.8	1433.9	1274.7	1193.0	1204.7	1225.9	1183.4
17.5°	2287.3	2262.8	2177.9	1898.8	1652.6	1381.9	1181.3	1142.0	1206.8	1286.4	1270.5
20°	2388.1	2360.5	2256.5	1944.4	1648.3	1300.2	1086.8	1098.5	1189.8	1281.1	1289.6
22.5°	2505.9	2477.2	2356.2	2002.8	1645.1	1202.5	1005.1	1060.3	1158.0	1235.4	1250.3
25°	2661.9	2628.0	2495.3	2088.8	1653.6	1113.4	946.7	1023.2	1103.8	1173.9	1182.4
27.5°	2867.8	2824.3	2655.6	2194.9	1671.7	1043.3	921.3	972.2	1034.8	1097.5	1104.9
30°	3136.4	3081.2	2839.2	2287.3	1663.2	994.5	904.3	921.3	958.4	1009.4	1010.4
32.5°	3450.5	3375.2	3045.1	2366.9	1589.9	958.4	880.9	869.3	877.8	917.0	924.5
35°	3819.9	3722.2	3272.2	2442.2	1456.2	888.4	838.5	799.2	796.0	815.1	833.2
37.5°	4243.4	4126.6	3558.8	2538.8	1298.1	815.1	775.9	736.6	719.6	729.2	756.8
40°	4634.0	4504.5	3858.1	2655.6	1136.7	749.3	702.6	662.3	642.1	645.3	679.3
42.5°	5092.5	4958.7	4224.3	2808.4	1003.0	704.8	626.2	584.8	558.3	573.1	612.4
45°	5788.7	5637.0	4758.1	2941.1	896.9	694.1	559.3	501.0	488.2	513.7	560.4
47.5°	6739.7	6554.0	5491.5	3021.7	806.6	703.7	512.6	433.0	436.2	464.9	511.6
50°	7683.3	7482.7	6339.6	2915.6	732.3	684.6	489.3	380.0	400.1	425.6	468.1
52.5°	8331.8	8070.7	6752.5	2608.9	664.4	612.4	487.2	330.1	368.3	376.8	412.9
55°	8357.2	8035.7	6541.2	2056.9	572.1	516.9	464.9	288.7	333.3	336.5	367.2
57.5°	7325.6	7034.8	5716.6	1412.7	508.4	378.9	370.4	252.6	273.8	300.4	319.5
60°	5573.3	5326.0	4275.2	647.4	386.3	240.9	253.7	217.6	204.8	244.1	263.2
62.5°	3413.4	3255.2	2564.3	286.6	246.2	128.4	153.9	173.0	153.9	168.8	184.7
65°	1355.4	1285.3	973.3	122.1	100.8	64.7	70.1	100.8	108.3	118.9	133.7
67.5°	235.6	222.9	163.5	54.1	41.4	39.3	34.0	46.7	65.8	73.2	84.9
70°	30.8	29.7	26.5	22.3	21.2	19.1	14.9	29.7	44.6	46.7	54.1
72.5°	7.4	6.4	6.4	5.3	6.4	2.1	2.1	15.9	31.8	32.9	38.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	20.2	22.3	26.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0
2.5°	1234.4	1213.1	1205.7	1195.1	1181.3	1185.6	1166.4	1160.1	1169.6	1182.4	1179.2
5°	1121.9	1098.5	1082.6	1058.2	1053.9	1044.4	1038.0	1029.5	1040.1	1055.0	1058.2
7.5°	1032.7	1012.5	996.6	989.2	983.9	979.6	966.9	960.5	960.5	966.9	972.2
10°	994.5	979.6	976.5	978.6	987.1	986.0	974.3	965.8	955.2	949.9	956.3
12.5°	1047.6	1023.2	1018.9	1020.0	1030.6	1029.5	1016.8	1006.2	1004.1	1006.2	1026.3
15°	1137.8	1100.6	1073.0	1067.7	1073.0	1070.9	1061.4	1055.0	1058.2	1089.0	1122.9
17.5°	1218.5	1161.1	1111.3	1092.2	1091.1	1087.9	1078.4	1076.2	1092.2	1149.5	1199.4
20°	1241.8	1185.6	1114.4	1090.0	1084.7	1081.5	1070.9	1074.1	1094.3	1163.3	1205.7
22.5°	1211.0	1156.9	1082.6	1058.2	1053.9	1052.9	1042.3	1046.5	1063.5	1124.0	1159.0
25°	1152.7	1107.0	1029.5	1008.3	1008.3	1006.2	996.6	998.8	1009.4	1062.4	1096.4
27.5°	1081.5	1038.0	973.3	952.1	955.2	958.4	946.7	943.6	952.1	1001.9	1022.1
30°	999.8	969.0	918.1	899.0	897.9	910.7	894.7	890.5	902.2	941.4	945.7
32.5°	920.2	905.4	869.3	854.4	855.5	857.6	849.1	849.1	859.7	880.9	879.9
35°	842.7	833.2	826.8	816.2	815.1	810.9	810.9	813.0	824.7	832.1	818.3
37.5°	768.4	778.0	785.4	774.8	766.3	766.3	766.3	775.9	786.5	783.3	759.9
40°	702.6	722.8	746.1	734.5	714.3	713.2	717.5	733.4	749.3	730.2	709.0
42.5°	646.4	671.8	704.8	698.4	676.1	672.9	676.1	696.3	709.0	684.6	661.2
45°	591.2	623.0	662.3	662.3	637.9	634.7	635.8	662.3	669.7	641.1	611.4
47.5°	544.5	579.5	620.9	620.9	600.7	594.4	599.7	627.3	632.6	592.2	564.7
50°	499.9	538.1	583.8	580.6	566.8	561.5	571.0	600.7	594.4	549.8	521.1
52.5°	443.7	484.0	546.6	549.8	542.4	543.4	555.1	574.2	556.2	502.0	477.6
55°	392.7	434.1	496.7	513.7	513.7	512.6	517.9	532.8	517.9	453.2	423.5
57.5°	337.5	372.5	424.5	428.8	432.0	420.3	427.7	447.9	440.5	385.3	368.3
60°	277.0	306.7	336.5	339.6	325.8	301.4	315.2	338.6	343.9	302.5	283.4
62.5°	196.4	225.0	260.0	260.0	246.2	221.8	239.9	260.0	252.6	210.2	198.5
65°	146.5	173.0	199.5	211.2	199.5	182.6	196.4	211.2	199.5	164.5	147.5
67.5°	94.5	112.5	128.4	138.0	140.1	138.0	144.3	140.1	126.3	103.0	93.4
70°	57.3	66.9	75.4	83.8	90.2	93.4	96.6	87.0	73.2	60.5	57.3
72.5°	41.4	49.9	57.3	63.7	71.1	73.2	73.2	66.9	54.1	42.5	39.3
75°	28.7	36.1	42.5	46.7	53.1	55.2	55.2	49.9	40.3	30.8	27.6
77.5°	1.1	7.4	7.4	6.4	8.5	10.6	10.6	12.7	11.7	8.5	7.4
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0
2.5°	1185.6	1223.8	1234.4	1273.6	1308.7	1343.7	1386.2	1411.6	1449.8	1476.4	1491.2
5°	1068.8	1100.6	1138.9	1197.2	1257.7	1324.6	1405.3	1475.3	1563.4	1628.1	1649.4
7.5°	983.9	1025.3	1069.9	1143.1	1225.9	1315.0	1428.6	1543.2	1678.0	1766.1	1822.4
10°	968.0	1010.4	1069.9	1142.0	1229.1	1331.0	1470.0	1618.6	1787.4	1894.6	1958.2
12.5°	1044.4	1090.0	1115.5	1148.4	1214.2	1327.8	1506.1	1695.0	1893.5	2010.2	2078.2
15°	1156.9	1197.2	1155.8	1114.4	1156.9	1293.8	1526.3	1758.7	1986.9	2121.7	2191.7
17.5°	1234.4	1237.6	1147.3	1059.2	1070.9	1232.3	1533.7	1822.4	2086.7	2227.8	2301.1
20°	1226.9	1201.5	1110.2	1012.5	976.5	1152.7	1525.2	1878.6	2187.5	2335.0	2407.2
22.5°	1169.6	1139.9	1062.4	966.9	896.9	1058.2	1510.3	1929.6	2279.8	2447.5	2515.5
25°	1100.6	1068.8	1005.1	921.3	845.9	966.9	1498.7	1999.6	2396.6	2594.0	2647.1
27.5°	1020.0	992.4	938.3	877.8	824.7	897.9	1495.5	2092.0	2537.7	2772.3	2809.5
30°	941.4	916.0	873.5	838.5	816.2	857.6	1484.9	2190.7	2706.5	2977.2	3017.5
32.5°	866.1	840.6	814.1	808.8	809.8	842.7	1448.8	2288.3	2907.1	3274.3	3304.1
35°	801.3	771.6	761.0	773.7	797.1	817.3	1346.9	2369.0	3122.6	3598.1	3622.5
37.5°	739.8	710.1	709.0	739.8	765.2	778.0	1226.9	2448.6	3413.4	3927.1	3957.9
40°	683.5	653.8	664.4	701.6	721.7	728.1	1081.5	2569.6	3721.2	4274.1	4257.2
42.5°	635.8	605.0	611.4	659.1	677.2	694.1	947.8	2670.4	4017.3	4603.2	4597.9
45°	589.1	565.7	561.5	613.5	629.4	697.3	850.2	2747.9	4398.3	5022.4	5030.9
47.5°	543.4	525.4	526.4	548.7	588.0	713.2	767.4	2798.8	4951.3	5686.8	5539.3
50°	502.0	488.2	499.9	474.4	561.5	693.1	696.3	2788.2	5569.0	6323.7	6027.5
52.5°	456.4	453.2	458.5	397.0	519.0	611.4	629.4	2647.1	5858.8	6758.8	6590.1
55°	409.7	408.6	366.2	317.4	434.1	488.2	539.2	2208.7	5849.2	6990.2	7195.0
57.5°	354.5	346.0	278.1	259.0	337.5	339.6	491.4	1446.7	5183.7	6436.2	6860.7
60°	268.5	262.2	203.8	210.2	235.6	217.6	391.6	720.7	3874.0	5013.9	5492.6
62.5°	185.7	177.2	151.8	162.4	151.8	124.2	239.9	356.6	2346.7	3166.1	3600.2
65°	135.9	126.3	104.0	89.2	71.1	71.1	91.3	136.9	908.5	1345.8	1622.8
67.5°	83.8	79.6	61.6	44.6	43.5	46.7	47.8	67.9	146.5	233.5	285.5
70°	54.1	49.9	41.4	28.7	26.5	27.6	28.7	31.8	37.1	40.3	48.8
72.5°	37.1	35.0	29.7	15.9	12.7	13.8	14.9	14.9	18.0	17.0	20.2
75°	26.5	24.4	21.2	7.4	4.2	5.3	6.4	5.3	6.4	4.2	5.3
77.5°	7.4	7.4	5.3	1.1	0.0	1.1	2.1	2.1	1.1	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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-SA4B-750-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0	1349.0
2.5°	1529.4	1553.8	1563.4	1549.6	1561.3	1542.2	1534.7	1506.1	1504.0	1498.7
5°	1735.3	1790.5	1823.4	1843.6	1820.3	1794.8	1756.6	1690.8	1670.6	1657.9
7.5°	1938.1	2024.0	2080.3	2106.8	2100.5	2048.4	1979.5	1869.1	1829.8	1810.7
10°	2114.3	2219.3	2287.3	2320.2	2306.4	2260.7	2162.0	2024.0	1972.0	1960.4
12.5°	2237.4	2334.0	2380.7	2409.3	2410.4	2392.3	2298.9	2159.9	2098.3	2083.5
15°	2314.9	2356.2	2357.3	2374.3	2404.0	2444.3	2400.8	2277.7	2211.9	2189.6
17.5°	2363.7	2318.0	2271.3	2275.6	2324.4	2431.6	2476.2	2381.7	2311.7	2287.3
20°	2398.7	2254.4	2167.3	2168.4	2218.3	2380.7	2528.2	2482.6	2410.4	2388.1
22.5°	2421.0	2198.1	2073.9	2070.7	2123.8	2320.2	2576.0	2602.5	2531.4	2505.9
25°	2466.6	2171.6	2017.7	2035.7	2082.4	2301.1	2640.7	2761.7	2695.9	2661.9
27.5°	2548.4	2198.1	2012.4	2053.8	2106.8	2357.3	2753.2	2974.0	2906.0	2867.8
30°	2689.5	2297.9	2094.1	2151.4	2215.1	2504.8	2942.1	3270.1	3172.4	3136.4
32.5°	2916.7	2504.8	2346.7	2469.8	2531.4	2746.8	3225.5	3602.3	3522.7	3450.5
35°	3229.8	2977.2	2959.1	3245.7	3230.8	3205.3	3573.6	4009.9	3889.9	3819.9
37.5°	3660.7	3737.1	3870.8	4155.3	4145.7	3951.5	4031.1	4395.1	4333.6	4243.4
40°	4198.8	4361.2	4588.3	4995.9	4868.5	4624.4	4592.6	4790.0	4740.1	4634.0
42.5°	4516.1	4796.3	5229.4	5595.6	5493.7	5067.0	5030.9	5317.5	5208.2	5092.5
45°	4663.7	5150.8	5999.9	6495.6	6186.7	5361.0	5347.2	6005.2	5943.7	5788.7
47.5°	4731.6	5508.5	6902.1	7652.5	7075.1	5618.9	5569.0	7002.9	6922.3	6739.7
50°	4807.0	6002.1	7989.0	8993.0	8148.2	5910.8	5946.9	7932.7	7898.7	7683.3
52.5°	4972.5	6524.3	9327.3	10525.6	9449.4	6368.2	6595.4	8809.4	8580.1	8331.8
55°	5220.9	7093.2	10719.9	12091.2	10777.2	6982.8	7296.9	9275.3	8632.1	8357.2
57.5°	4946.0	7235.4	11544.6	13184.4	11366.2	6984.9	6703.6	8467.6	7592.0	7325.6
60°	3925.0	6731.2	11227.2	12947.7	10864.2	6202.7	5132.8	6611.3	5751.6	5573.3
62.5°	2653.4	5645.4	9883.5	10950.2	9298.7	4879.1	3335.9	4299.6	3560.9	3413.4
65°	1454.1	4211.5	7985.8	8284.0	7277.8	3408.1	1716.2	1865.9	1421.2	1355.4
67.5°	401.2	2931.5	5875.8	5495.8	5106.3	2219.3	443.7	333.3	237.7	235.6
70°	100.8	1939.1	3520.6	3628.8	3131.0	1421.2	84.9	40.3	31.8	30.8
72.5°	42.5	834.2	1670.6	1920.0	1602.7	658.1	30.8	11.7	9.6	7.4
75°	5.3	66.9	142.2	215.5	147.5	71.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)