

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: P636723

Luminaire Tested: GWS-SA4B-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636723  
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-SA4B-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

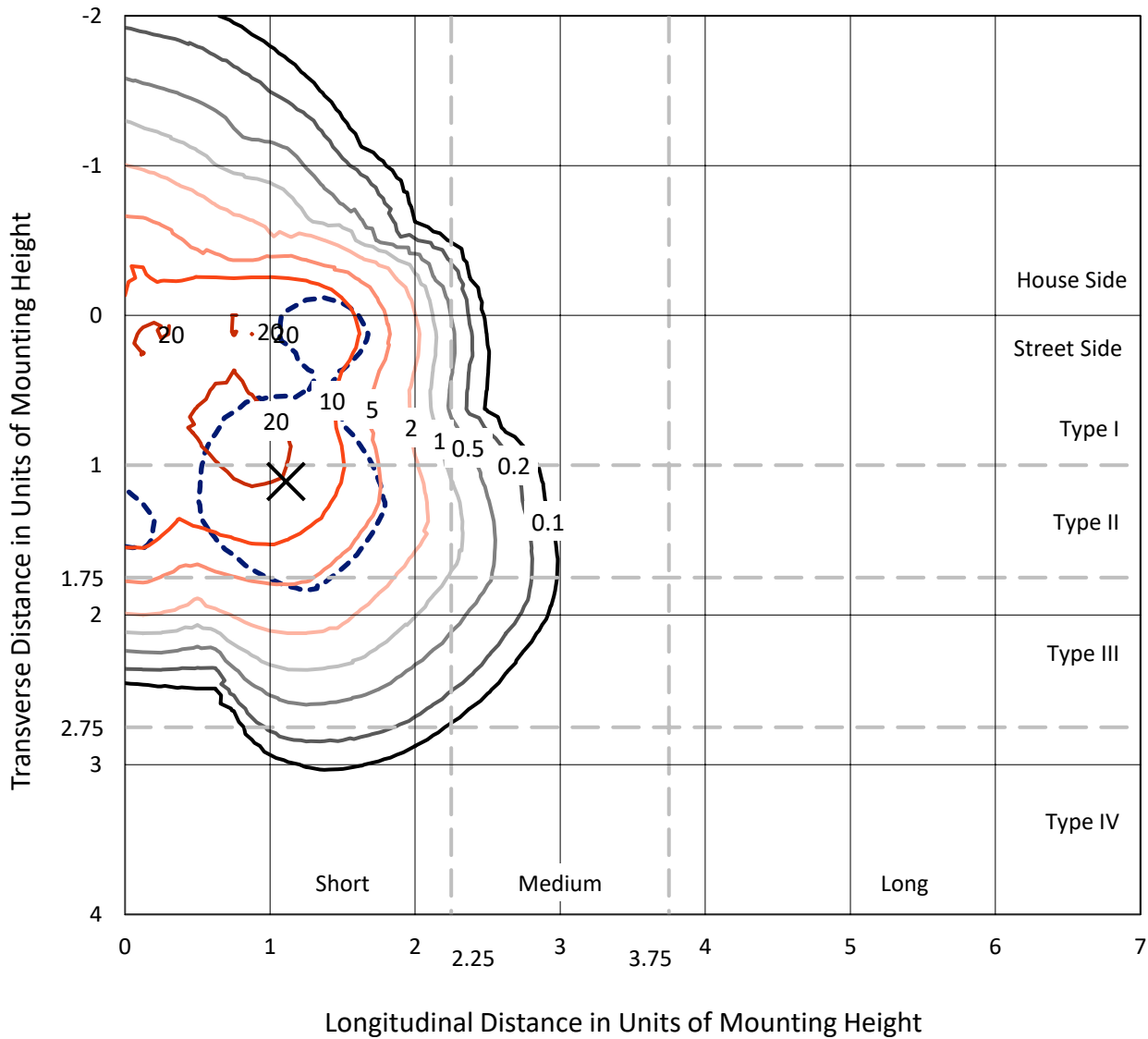
Lumens per Lamp: N/A  
Luminaire Lumens: 7616.1 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

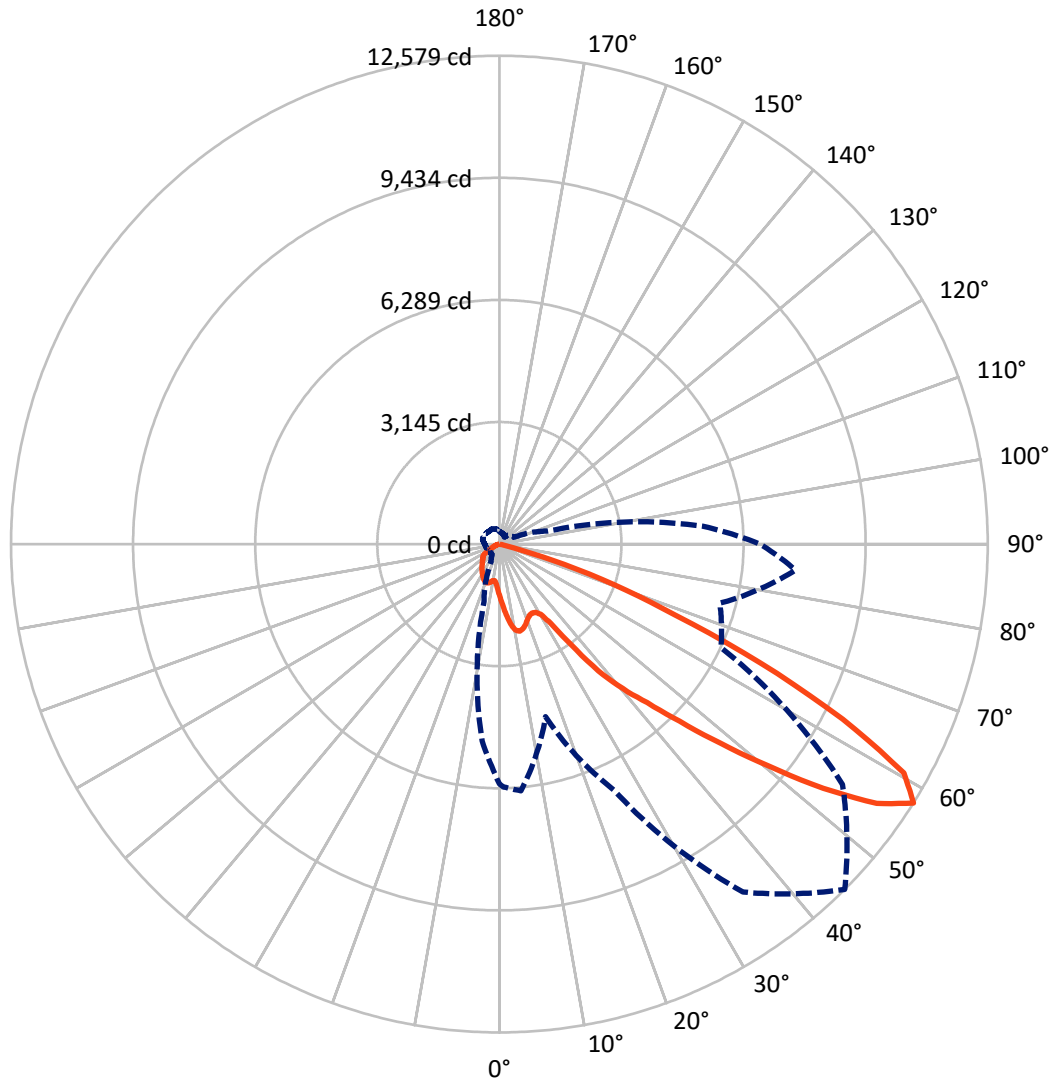
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.8 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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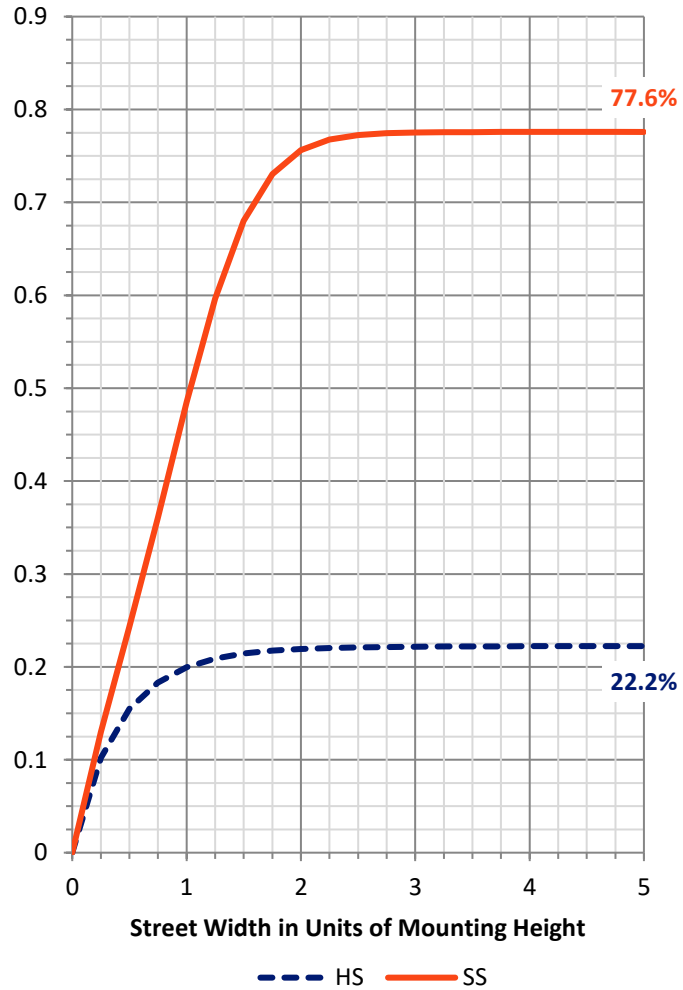
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1705.4	0.0	1705.4
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	5910.6	0.0	5910.6
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	7616.1	0.0	7616.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.7	1.7
10°-20°	426.0	5.6
20°-30°	692.0	9.1
30°-40°	1069.3	14.0
40°-50°	1714.6	22.5
50°-60°	2343.4	30.8
60°-70°	1135.0	14.9
70°-80°	103.9	1.4
80°-90°	0.3	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°	7616.1	100.0
0°-180°	7616.1	100.0

**Coefficient of Utilization**



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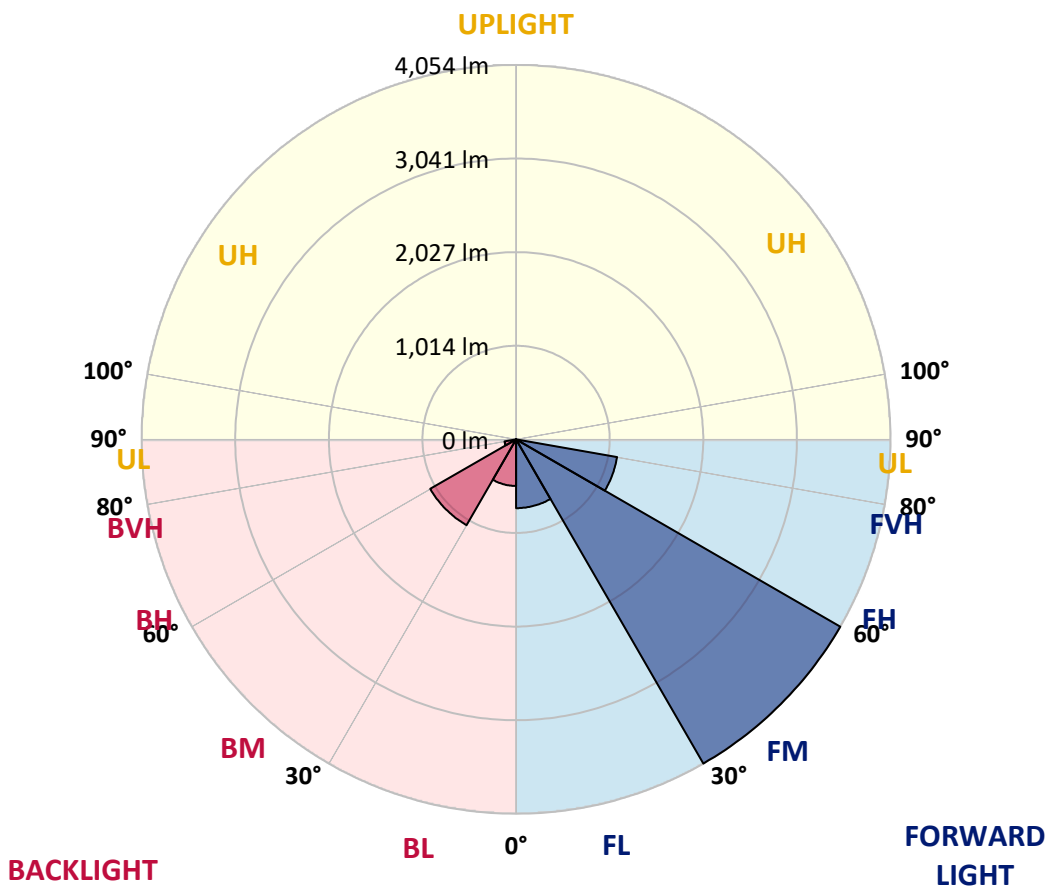
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.1	9.8			
FM (30°-60°)	4054.2	53.2			
FH (60°-80°)	1111.0	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	504.6	6.6	B2/1000		
BM (30°-60°)	1073.0	14.1	B2/2500		
BH (60°-80°)	127.8	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°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1450.2	1459.4	1474.7	1507.5	1535.1	1553.5	1561.7	1559.7	1548.4	1540.2	1523.8
5°	1605.7	1605.7	1635.4	1710.1	1767.4	1803.2	1821.7	1810.4	1787.9	1752.1	1696.8
7.5°	1741.8	1746.9	1797.1	1903.5	1990.5	2041.7	2071.4	2065.2	2025.3	1956.7	1846.2
10°	1848.3	1854.4	1920.9	2050.9	2153.2	2205.4	2249.4	2253.5	2209.5	2118.4	1991.5
12.5°	1951.6	1957.8	2027.4	2152.2	2242.3	2263.8	2302.7	2318.0	2306.8	2242.3	2110.3
15°	2063.2	2077.5	2136.9	2230.0	2267.9	2242.3	2267.9	2295.5	2333.4	2327.2	2208.5
17.5°	2172.7	2182.9	2243.3	2276.0	2234.1	2167.6	2179.8	2212.6	2298.6	2382.5	2305.7
20°	2274.0	2288.3	2338.5	2295.5	2168.6	2065.2	2066.3	2109.2	2240.2	2416.3	2405.0
22.5°	2380.4	2401.9	2437.7	2317.0	2108.2	1984.4	1989.5	2028.4	2194.2	2448.0	2517.6
25°	2519.6	2540.1	2563.6	2370.2	2088.8	1944.5	1963.9	1999.7	2194.2	2502.2	2656.8
27.5°	2707.9	2722.3	2723.3	2469.5	2122.5	1950.6	1991.5	2032.5	2259.7	2610.7	2843.0
30°	2944.3	2966.8	2937.2	2624.0	2227.9	2032.5	2092.9	2144.0	2400.9	2793.9	3117.3
32.5°	3231.9	3263.6	3223.7	2853.2	2448.0	2314.9	2424.4	2454.1	2626.1	3059.0	3428.4
35°	3569.6	3596.2	3553.3	3170.5	2961.7	2986.3	3184.8	3147.0	3078.4	3385.4	3791.7
37.5°	3940.1	3964.7	3881.8	3651.5	3721.1	3827.5	4144.8	4014.8	3793.8	3806.0	4185.7
40°	4279.9	4306.5	4176.5	4174.5	4317.7	4512.2	4894.9	4715.8	4415.0	4356.6	4555.2
42.5°	4631.9	4650.3	4532.7	4452.8	4778.3	5178.4	5583.7	5342.2	4826.4	4762.9	5017.7
45°	5134.4	5173.3	4963.5	4590.0	5192.7	5944.9	6509.9	6038.1	5106.8	5055.6	5725.9
47.5°	5873.3	5902.0	5474.2	4675.9	5578.6	6899.8	7667.3	6940.7	5353.4	5236.8	6694.1
50°	6484.3	6503.7	5943.9	4770.1	5989.0	7929.3	8986.5	8011.2	5630.8	5536.6	7597.7
52.5°	6934.6	7008.3	6561.0	4963.5	6528.3	9140.0	10446.9	9279.2	6063.7	6115.9	8346.9
55°	7027.7	7128.0	6982.7	5082.2	7003.1	10373.2	11795.7	10414.2	6495.5	6554.9	8598.6
57.5°	6176.2	6256.1	6376.8	4603.3	6991.9	10938.1	12578.6	10790.8	6299.0	5878.4	7656.1
60°	4626.8	4682.1	4901.1	3518.5	6430.0	10438.7	11968.7	10150.1	5508.0	4485.6	5833.4
62.5°	2743.7	2768.3	3045.6	2279.1	5337.0	8989.6	9926.0	8758.3	4352.5	3017.0	3572.7
65°	1053.1	1042.8	1254.7	1124.7	3924.8	7160.8	7382.8	6676.7	2986.3	1382.6	1362.1
67.5°	162.7	155.6	209.8	332.6	2830.7	4962.5	4871.4	4812.0	1870.8	322.4	281.4
70°	36.8	36.8	45.0	98.2	1729.6	2915.7	3120.4	2975.0	1197.4	68.6	36.8
72.5°	17.4	17.4	21.5	42.0	626.3	1201.5	1400.0	1378.5	388.9	22.5	13.3
75°	6.1	7.2	7.2	9.2	37.9	62.4	143.3	102.3	24.6	0.0	0.0
77.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	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°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1488.0	1480.9	1454.3	1418.4	1383.6	1352.9	1321.2	1283.3	1255.7	1224.0	1213.8
5°	1653.8	1608.8	1536.1	1460.4	1390.8	1331.4	1274.1	1212.7	1167.7	1122.7	1107.3
7.5°	1794.0	1727.5	1609.8	1496.2	1401.0	1317.1	1234.2	1150.3	1084.8	1031.6	1015.2
10°	1919.9	1843.1	1685.5	1545.3	1425.6	1328.4	1228.1	1122.7	1037.7	974.3	958.9
12.5°	2028.4	1939.3	1750.0	1582.2	1435.8	1324.3	1227.1	1143.1	1066.4	993.7	974.3
15°	2119.5	2021.2	1804.3	1606.7	1420.5	1273.1	1188.2	1174.9	1168.7	1088.9	1051.0
17.5°	2208.5	2098.0	1848.3	1618.0	1377.5	1183.1	1121.6	1182.0	1246.5	1194.3	1146.2
20°	2301.6	2175.8	1893.3	1620.0	1305.9	1081.7	1071.5	1166.7	1248.6	1232.2	1187.1
22.5°	2411.1	2273.0	1949.6	1619.0	1215.8	995.8	1034.7	1137.0	1203.5	1202.5	1166.7
25°	2569.8	2395.8	2025.3	1625.2	1117.6	929.3	993.7	1086.9	1141.1	1139.0	1109.4
27.5°	2739.7	2542.1	2123.6	1640.5	1033.6	890.4	945.6	1018.3	1065.4	1063.3	1037.7
30°	2978.1	2711.0	2217.7	1641.5	973.3	869.9	892.4	942.6	987.6	982.5	963.0
32.5°	3267.7	2901.3	2296.5	1583.2	935.4	850.4	837.1	862.7	897.5	890.4	885.2
35°	3617.7	3127.5	2364.1	1455.3	877.1	811.6	775.7	780.9	805.4	809.5	807.5
37.5°	4016.9	3396.7	2448.0	1286.4	798.3	755.3	707.2	703.1	717.4	730.7	740.9
40°	4410.9	3699.6	2561.6	1115.5	726.6	683.6	637.6	627.3	633.5	657.0	678.5
42.5°	4854.0	4050.6	2684.4	969.2	677.5	604.8	560.8	541.4	558.8	596.6	622.2
45°	5492.6	4542.9	2804.1	852.5	657.0	535.2	475.9	473.8	493.3	542.4	571.1
47.5°	6389.1	5179.4	2882.9	761.4	656.0	481.0	410.4	422.7	445.2	493.3	526.0
50°	7263.1	5976.7	2795.9	691.8	634.5	445.2	361.3	385.8	408.3	450.3	484.1
52.5°	7790.1	6405.5	2457.2	626.3	568.0	428.8	313.2	356.1	360.2	398.1	433.9
55°	7734.9	6128.1	1882.0	525.0	469.7	405.3	263.0	321.3	323.4	352.1	382.8
57.5°	6713.5	5261.3	1292.6	425.7	353.1	334.7	217.0	271.2	290.6	308.0	330.6
60°	5003.4	3838.8	576.2	345.9	224.1	226.2	185.2	204.7	234.4	254.8	274.3
62.5°	2948.4	2208.5	234.4	207.8	123.8	142.3	149.4	149.4	167.8	183.2	195.5
65°	1114.5	772.7	95.2	104.4	64.5	66.5	88.0	108.5	122.8	136.1	152.5
67.5°	195.5	135.1	49.1	38.9	37.9	33.8	45.0	70.6	78.8	89.0	96.2
70°	32.7	27.6	20.5	19.4	17.4	18.4	29.7	50.1	55.3	58.3	61.4
72.5°	9.2	8.2	6.1	5.1	4.1	5.1	18.4	38.9	40.9	43.0	46.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	27.6	29.7	30.7	33.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	8.2	10.2	8.2
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°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1207.6	1187.1	1175.9	1169.7	1169.7	1161.6	1152.4	1149.3	1162.6	1162.6	1185.1
5°	1087.9	1071.5	1053.1	1041.8	1024.4	1027.5	1017.3	1016.2	1029.5	1035.7	1059.2
7.5°	1005.0	984.5	973.3	966.1	956.9	952.8	943.6	940.5	947.7	957.9	980.4
10°	949.7	946.6	945.6	950.7	950.7	945.6	937.4	932.3	934.4	953.8	979.4
12.5°	964.0	970.2	972.2	980.4	984.5	980.4	974.3	976.3	989.6	1025.4	1063.3
15°	1026.5	1021.4	1019.3	1023.4	1026.5	1022.4	1020.3	1035.7	1081.7	1132.9	1175.9
17.5°	1093.0	1060.2	1045.9	1045.9	1048.0	1045.9	1048.0	1077.6	1152.4	1203.5	1235.2
20°	1126.8	1066.4	1043.9	1038.8	1042.8	1043.9	1051.0	1084.8	1166.7	1202.5	1209.7
22.5°	1116.5	1040.8	1015.2	1011.1	1015.2	1019.3	1026.5	1055.1	1131.9	1150.3	1147.2
25°	1065.4	990.7	970.2	970.2	979.4	978.4	981.4	1001.9	1065.4	1076.6	1071.5
27.5°	1000.9	930.3	912.9	923.1	931.3	929.3	930.3	947.7	994.7	997.8	992.7
30°	935.4	874.0	857.6	869.9	881.2	879.1	880.1	897.5	927.2	924.1	917.0
32.5°	868.9	823.8	811.6	818.7	836.1	834.1	838.2	856.6	867.8	854.5	846.4
35°	807.5	783.9	774.7	778.8	792.1	795.2	802.3	814.6	814.6	798.3	783.9
37.5°	750.2	747.1	740.9	735.8	748.1	757.3	767.6	781.9	761.4	737.9	724.6
40°	696.9	710.2	702.1	688.8	695.9	709.2	729.7	740.9	716.4	692.8	670.3
42.5°	647.8	670.3	667.3	650.9	657.0	669.3	692.8	702.1	673.4	646.8	625.3
45°	600.7	632.5	634.5	614.0	620.2	632.5	660.1	663.2	626.3	597.7	582.3
47.5°	559.8	594.6	595.6	580.3	582.3	599.7	625.3	626.3	584.4	557.8	538.3
50°	520.9	560.8	563.9	550.6	552.6	573.1	594.6	590.5	545.5	517.8	500.4
52.5°	473.8	528.1	535.2	529.1	537.3	553.7	567.0	552.6	500.4	472.8	457.5
55°	422.7	493.3	508.6	504.5	513.7	527.1	530.1	520.9	455.4	427.8	413.5
57.5°	363.3	406.3	432.9	424.7	431.9	445.2	454.4	447.2	398.1	376.6	364.3
60°	300.9	329.5	335.7	322.4	316.2	339.8	361.3	352.1	310.1	296.8	282.5
62.5°	220.0	252.8	256.9	239.5	232.3	257.9	276.3	267.1	221.1	206.7	195.5
65°	176.0	206.7	214.9	198.5	194.4	213.9	225.1	202.6	169.9	154.5	142.3
67.5°	115.6	140.2	161.7	160.7	152.5	158.6	150.4	132.0	108.5	100.3	92.1
70°	71.6	86.0	99.3	104.4	103.4	101.3	90.1	76.8	69.6	66.5	62.4
72.5°	55.3	69.6	79.8	82.9	83.9	80.8	71.6	59.4	52.2	48.1	45.0
75°	40.9	52.2	60.4	64.5	66.5	64.5	55.3	47.1	39.9	36.8	33.8
77.5°	14.3	17.4	21.5	23.5	22.5	21.5	19.4	19.4	15.4	14.3	12.3
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: P636723  
 CATALOG NUMBER: GWS-SA4B-735-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6	1338.6
2.5°	1210.7	1229.1	1262.9	1293.6	1326.3	1360.1	1396.9	1434.8	1452.2	1450.2
5°	1095.0	1135.0	1190.2	1250.6	1318.1	1390.8	1471.7	1554.5	1590.4	1605.7
7.5°	1022.4	1078.7	1151.3	1228.1	1317.1	1420.5	1542.3	1672.2	1724.4	1741.8
10°	1031.6	1097.1	1157.5	1232.2	1327.4	1461.4	1612.9	1767.4	1828.8	1848.3
12.5°	1106.3	1120.6	1137.0	1198.4	1318.1	1492.1	1677.4	1861.6	1932.2	1951.6
15°	1173.8	1107.3	1076.6	1132.9	1285.4	1513.6	1742.9	1962.9	2040.7	2063.2
17.5°	1176.9	1076.6	1008.1	1052.1	1232.2	1522.8	1807.3	2066.3	2151.2	2172.7
20°	1139.0	1042.8	954.8	955.9	1159.5	1520.8	1860.5	2159.4	2254.6	2274.0
22.5°	1083.8	1002.9	911.9	880.1	1081.7	1516.7	1918.9	2258.7	2362.0	2380.4
25°	1022.4	951.8	870.9	822.8	1004.0	1520.8	2000.8	2388.6	2502.2	2519.6
27.5°	955.9	895.5	839.2	800.3	938.5	1536.1	2099.0	2554.4	2689.5	2707.9
30°	886.3	841.2	818.7	795.2	897.5	1540.2	2205.4	2747.8	2918.7	2944.3
32.5°	817.7	793.1	794.2	798.3	858.6	1511.6	2302.7	2962.8	3191.0	3231.9
35°	754.2	747.1	767.6	788.0	802.3	1437.9	2387.6	3216.6	3527.7	3569.6
37.5°	700.0	706.1	731.7	752.2	740.9	1333.5	2500.2	3533.8	3904.3	3940.1
40°	647.8	663.2	692.8	702.1	693.9	1211.7	2635.3	3839.8	4230.7	4279.9
42.5°	599.7	611.0	652.9	655.0	680.6	1087.9	2765.2	4169.3	4606.3	4631.9
45°	560.8	558.8	601.8	615.1	698.0	950.7	2892.1	4608.4	5097.6	5134.4
47.5°	523.0	520.9	531.1	591.5	705.1	823.8	3018.0	5251.1	5809.9	5873.3
50°	487.1	490.2	458.5	580.3	666.2	726.6	3075.3	5845.7	6457.7	6484.3
52.5°	455.4	444.2	388.9	543.4	583.3	634.5	2912.6	6115.9	6858.8	6934.6
55°	410.4	348.0	320.3	441.1	460.5	553.7	2385.6	5959.3	6893.6	7027.7
57.5°	351.0	273.2	272.2	325.4	325.4	513.7	1527.9	5091.4	5940.9	6176.2
60°	270.2	211.8	225.1	226.2	208.8	374.6	857.6	3688.3	4392.4	4626.8
62.5°	192.4	161.7	169.9	135.1	119.7	187.3	411.4	2123.6	2711.0	2743.7
65°	128.9	109.5	89.0	74.7	73.7	79.8	169.9	767.6	933.3	1053.1
67.5°	84.9	66.5	47.1	47.1	53.2	53.2	64.5	126.9	178.1	162.7
70°	55.3	46.1	29.7	28.7	34.8	34.8	32.7	34.8	36.8	36.8
72.5°	40.9	34.8	17.4	15.4	19.4	20.5	18.4	17.4	17.4	17.4
75°	30.7	24.6	10.2	7.2	9.2	12.3	10.2	7.2	7.2	6.1
77.5°	12.3	9.2	4.1	3.1	5.1	7.2	6.1	3.1	2.0	2.0
80°	1.0	2.0	2.0	2.0	3.1	4.1	5.1	2.0	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	2.0	3.1	4.1	2.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	2.0	3.1	2.0	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	2.0	1.0	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)