

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: P636719

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636719  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

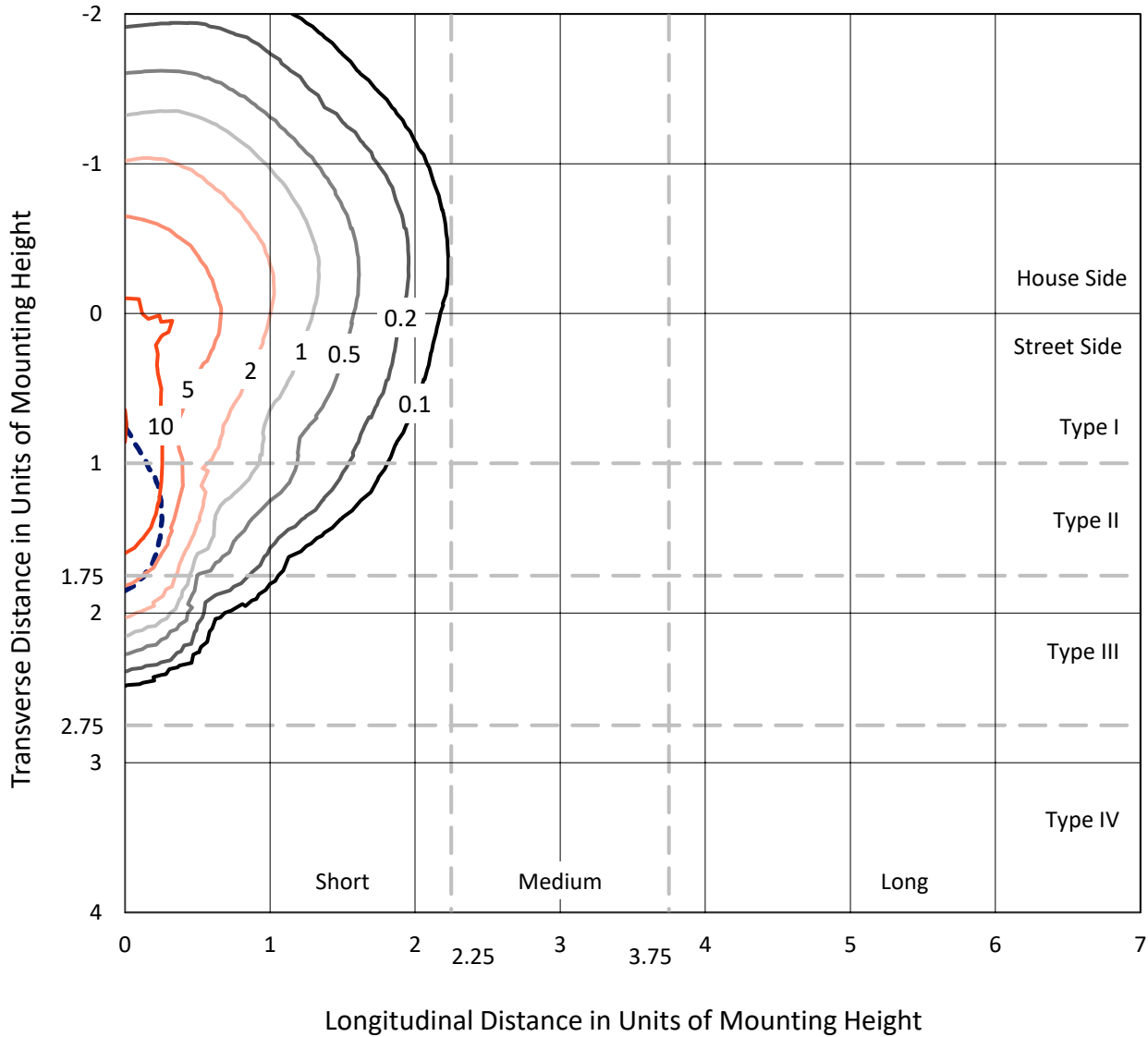
Lumens per Lamp: N/A  
Luminaire Lumens: 7655 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P636719  
 CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

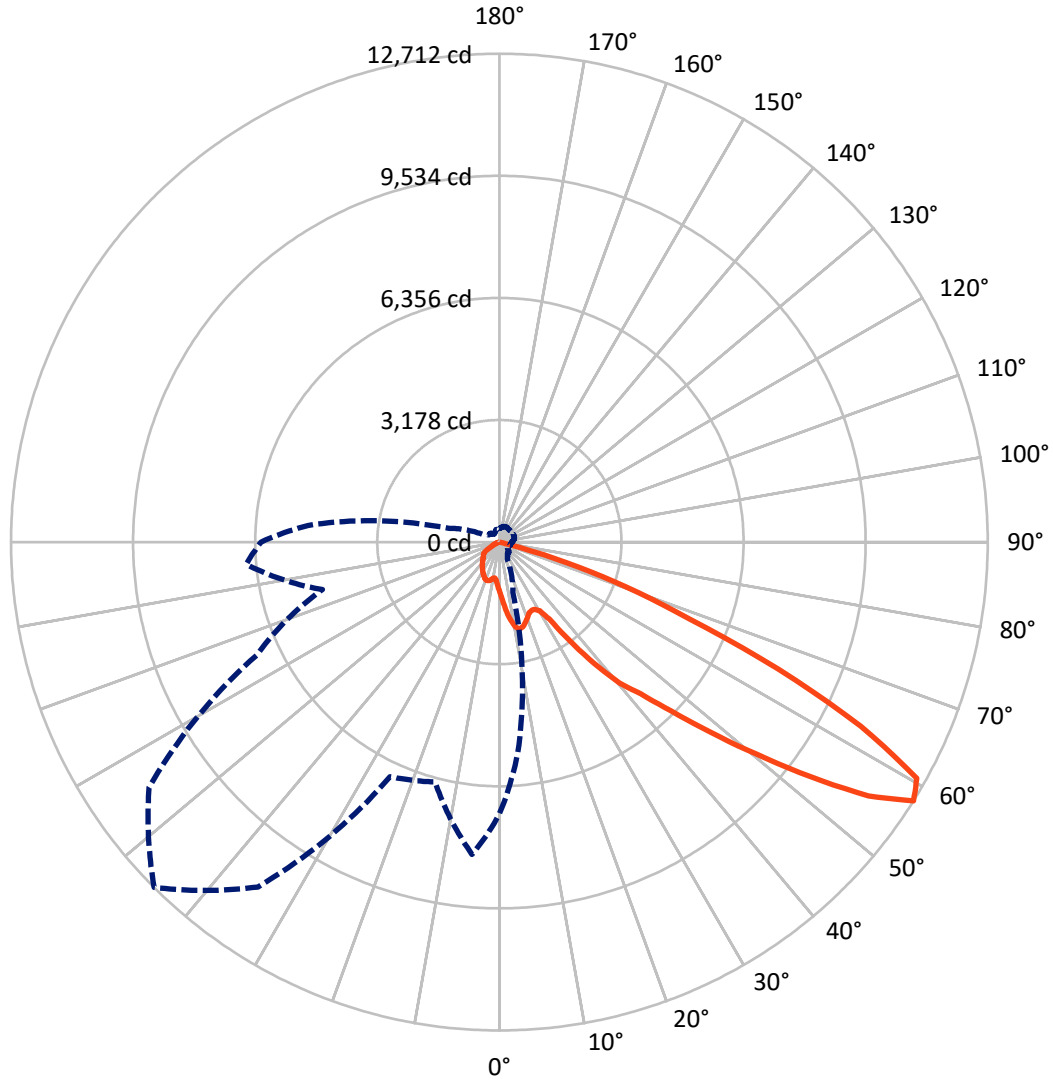
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 fc  
 Type III - Short - N/A

REPORT NUMBER: P636719  
CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P636719

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1649.1	0.0	1649.1
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	6005.9	0.0	6005.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	7655.0	0.0	7655.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.6	1.7
10°-20°	423.0	5.5
20°-30°	686.5	9.0
30°-40°	1053.6	13.8
40°-50°	1682.7	22.0
50°-60°	2356.1	30.8
60°-70°	1208.1	15.8
70°-80°	116.3	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°	7655.0	100.0
0°-180°	7655.0	100.0

**Coefficient of Utilization**



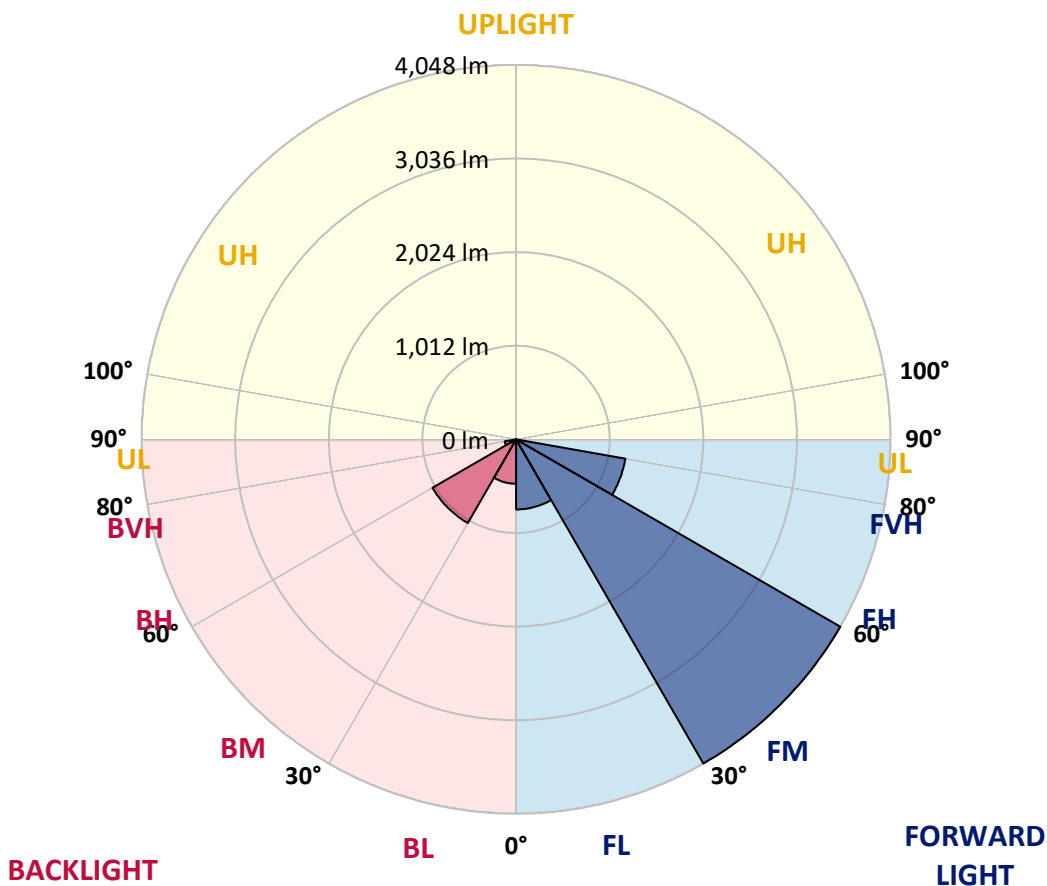
REPORT NUMBER: P636719

CATALOG NUMBER: GWS-SA4B-735-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°)	757.9	9.9			
FM (30°-60°)	4048.1	52.9			
FH (60°-80°)	1199.8	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	480.2	6.3	B1/500		
BM (30°-60°)	1044.4	13.6	B2/2500		
BH (60°-80°)	124.6	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





REPORT NUMBER: P636719

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1445.0	1441.9	1431.7	1396.9	1375.4	1341.6	1317.1	1285.3	1250.6	1229.1	1207.6
5°	1598.5	1590.3	1562.7	1482.9	1421.5	1354.9	1301.7	1243.4	1181.0	1140.0	1102.2
7.5°	1745.9	1733.6	1696.7	1561.7	1468.5	1373.4	1297.6	1212.7	1124.7	1063.3	1016.2
10°	1890.2	1862.5	1804.2	1638.4	1512.5	1397.9	1308.9	1211.7	1108.3	1030.5	978.3
12.5°	2008.9	1988.4	1908.6	1711.1	1549.4	1403.0	1293.5	1203.5	1133.9	1081.7	1033.6
15°	2111.2	2088.7	2013.0	1776.6	1581.1	1382.6	1229.1	1150.3	1161.5	1182.0	1141.1
17.5°	2205.4	2181.8	2099.9	1830.8	1593.4	1332.4	1139.0	1101.1	1163.6	1240.3	1225.0
20°	2302.6	2276.0	2175.7	1874.8	1589.3	1253.6	1047.9	1059.2	1147.2	1235.2	1243.4
22.5°	2416.2	2388.5	2271.9	1931.1	1586.2	1159.5	969.1	1022.3	1116.5	1191.2	1205.5
25°	2566.6	2533.9	2405.9	2014.0	1594.4	1073.5	912.8	986.5	1064.3	1131.8	1140.0
27.5°	2765.1	2723.2	2560.5	2116.3	1611.8	1006.0	888.3	937.4	997.8	1058.2	1065.3
30°	3024.0	2970.8	2737.5	2205.4	1603.6	958.9	871.9	888.3	924.1	973.2	974.2
32.5°	3327.0	3254.3	2936.0	2282.1	1533.0	924.1	849.4	838.1	846.3	884.2	891.4
35°	3683.1	3588.9	3155.0	2354.8	1404.1	856.6	808.5	770.6	767.5	785.9	803.3
37.5°	4091.4	3978.8	3431.3	2447.9	1251.6	785.9	748.1	710.2	693.8	703.1	729.7
40°	4468.0	4343.2	3719.9	2560.5	1096.0	722.5	677.5	638.6	619.1	622.2	655.0
42.5°	4910.1	4781.2	4073.0	2707.8	967.1	679.5	603.8	563.9	538.3	552.6	590.5
45°	5581.4	5435.1	4587.7	2835.7	864.7	669.3	539.3	483.0	470.7	495.3	540.3
47.5°	6498.4	6319.3	5294.9	2913.5	777.8	678.5	494.3	417.5	420.6	448.2	493.3
50°	7408.1	7214.7	6112.6	2811.2	706.1	660.1	471.8	366.4	385.8	410.4	451.3
52.5°	8033.4	7781.7	6510.7	2515.4	640.6	590.5	469.7	318.3	355.1	363.3	398.1
55°	8058.0	7747.9	6307.0	1983.3	551.6	498.4	448.2	278.4	321.3	324.4	354.1
57.5°	7063.3	6782.9	5511.8	1362.1	490.2	365.3	357.2	243.6	264.0	289.6	308.0
60°	5373.7	5135.2	4122.1	624.3	372.5	232.3	244.6	209.8	197.5	235.4	253.8
62.5°	3291.1	3138.7	2472.5	276.3	237.4	123.8	148.4	166.8	148.4	162.7	178.1
65°	1306.8	1239.3	938.4	117.7	97.2	62.4	67.5	97.2	104.4	114.6	128.9
67.5°	227.2	214.9	157.6	52.2	39.9	37.9	32.7	45.0	63.4	70.6	81.9
70°	29.7	28.7	25.6	21.5	20.5	18.4	14.3	28.7	43.0	45.0	52.2
72.5°	7.2	6.1	6.1	5.1	6.1	2.0	2.0	15.4	30.7	31.7	36.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	19.4	21.5	25.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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: P636719

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1190.2	1169.7	1162.5	1152.3	1139.0	1143.1	1124.7	1118.5	1127.7	1140.0	1137.0
5°	1081.7	1059.2	1043.8	1020.3	1016.2	1007.0	1000.9	992.7	1002.9	1017.2	1020.3
7.5°	995.7	976.3	960.9	953.8	948.7	944.6	932.3	926.1	926.1	932.3	937.4
10°	958.9	944.6	941.5	943.5	951.7	950.7	939.4	931.3	921.0	915.9	922.1
12.5°	1010.1	986.5	982.4	983.5	993.7	992.7	980.4	970.2	968.1	970.2	989.6
15°	1097.0	1061.2	1034.6	1029.5	1034.6	1032.6	1023.4	1017.2	1020.3	1050.0	1082.7
17.5°	1174.8	1119.6	1071.5	1053.0	1052.0	1048.9	1039.7	1037.7	1053.0	1108.3	1156.4
20°	1197.3	1143.1	1074.5	1051.0	1045.9	1042.8	1032.6	1035.6	1055.1	1121.6	1162.5
22.5°	1167.7	1115.5	1043.8	1020.3	1016.2	1015.2	1004.9	1009.0	1025.4	1083.7	1117.5
25°	1111.4	1067.4	992.7	972.2	972.2	970.2	960.9	963.0	973.2	1024.4	1057.1
27.5°	1042.8	1000.9	938.4	918.0	921.0	924.1	912.8	909.8	918.0	966.1	985.5
30°	964.0	934.3	885.2	866.8	865.8	878.0	862.7	858.6	869.9	907.7	911.8
32.5°	887.3	872.9	838.1	823.8	824.8	826.9	818.7	818.7	828.9	849.4	848.4
35°	812.6	803.3	797.2	787.0	785.9	781.9	781.9	783.9	795.2	802.3	789.0
37.5°	740.9	750.1	757.3	747.1	738.9	738.9	738.9	748.1	758.3	755.2	732.7
40°	677.5	696.9	719.4	708.2	688.7	687.7	691.8	707.1	722.5	704.1	683.6
42.5°	623.2	647.8	679.5	673.4	651.9	648.8	651.9	671.3	683.6	660.1	637.6
45°	570.0	600.7	638.6	638.6	615.0	612.0	613.0	638.6	645.7	618.1	589.5
47.5°	525.0	558.8	598.7	598.7	579.2	573.1	578.2	604.8	609.9	571.0	544.4
50°	482.0	518.8	562.9	559.8	546.5	541.4	550.6	579.2	573.1	530.1	502.5
52.5°	427.8	466.7	527.0	530.1	522.9	524.0	535.2	553.6	536.2	484.1	460.5
55°	378.6	418.6	478.9	495.3	495.3	494.3	499.4	513.7	499.4	437.0	408.3
57.5°	325.4	359.2	409.3	413.4	416.5	405.3	412.4	431.9	424.7	371.5	355.1
60°	267.1	295.8	324.4	327.5	314.2	290.6	303.9	326.5	331.6	291.7	273.2
62.5°	189.3	217.0	250.7	250.7	237.4	213.9	231.3	250.7	243.6	202.6	191.4
65°	141.2	166.8	192.4	203.6	192.4	176.0	189.3	203.6	192.4	158.6	142.2
67.5°	91.1	108.5	123.8	133.0	135.1	133.0	139.2	135.1	121.8	99.3	90.1
70°	55.3	64.5	72.7	80.8	87.0	90.1	93.1	83.9	70.6	58.3	55.3
72.5°	39.9	48.1	55.3	61.4	68.6	70.6	70.6	64.5	52.2	40.9	37.9
75°	27.6	34.8	40.9	45.0	51.2	53.2	53.2	48.1	38.9	29.7	26.6
77.5°	1.0	7.2	7.2	6.1	8.2	10.2	10.2	12.3	11.3	8.2	7.2
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





REPORT NUMBER: P636719

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1143.1	1179.9	1190.2	1228.0	1261.8	1295.6	1336.5	1361.1	1397.9	1423.5	1437.8
5°	1030.5	1061.2	1098.1	1154.4	1212.7	1277.2	1354.9	1422.5	1507.4	1569.8	1590.3
7.5°	948.7	988.6	1031.6	1102.2	1182.0	1268.0	1377.5	1488.0	1617.9	1702.9	1757.1
10°	933.3	974.2	1031.6	1101.1	1185.1	1283.3	1417.4	1560.6	1723.3	1826.7	1888.1
12.5°	1007.0	1051.0	1075.6	1107.3	1170.7	1280.2	1452.2	1634.3	1825.7	1938.3	2003.8
15°	1115.5	1154.4	1114.4	1074.5	1115.5	1247.5	1471.6	1695.7	1915.7	2045.7	2113.3
17.5°	1190.2	1193.2	1106.3	1021.3	1032.6	1188.1	1478.8	1757.1	2011.9	2148.0	2218.7
20°	1183.0	1158.5	1070.4	976.3	941.5	1111.4	1470.6	1811.4	2109.2	2251.4	2321.0
22.5°	1127.7	1099.1	1024.4	932.3	864.7	1020.3	1456.2	1860.5	2198.2	2359.9	2425.4
25°	1061.2	1030.5	969.1	888.3	815.6	932.3	1445.0	1928.0	2310.8	2501.1	2552.3
27.5°	983.5	956.8	904.7	846.3	795.2	865.8	1441.9	2017.1	2446.9	2673.0	2708.8
30°	907.7	883.2	842.2	808.5	787.0	826.9	1431.7	2112.2	2609.6	2870.5	2909.4
32.5°	835.1	810.5	784.9	779.8	780.8	812.6	1396.9	2206.4	2803.0	3157.1	3185.7
35°	772.6	744.0	733.8	746.0	768.5	788.0	1298.7	2284.2	3010.7	3469.2	3492.7
37.5°	713.3	684.6	683.6	713.3	737.8	750.1	1183.0	2360.9	3291.1	3786.5	3816.1
40°	659.0	630.4	640.6	676.4	695.9	702.0	1042.8	2477.6	3587.9	4121.1	4104.7
42.5°	613.0	583.3	589.5	635.5	652.9	669.3	913.9	2574.8	3873.4	4438.3	4433.2
45°	568.0	545.5	541.4	591.5	606.9	672.4	819.7	2649.5	4240.8	4842.6	4850.8
47.5°	524.0	506.6	507.6	529.1	566.9	687.7	739.9	2698.6	4774.0	5483.2	5340.9
50°	484.1	470.7	482.0	457.4	541.4	668.3	671.3	2688.4	5369.6	6097.2	5811.7
52.5°	440.0	437.0	442.1	382.7	500.4	589.5	606.9	2552.3	5649.0	6516.8	6354.1
55°	395.0	394.0	353.1	306.0	418.6	470.7	519.9	2129.6	5639.8	6739.9	6937.4
57.5°	341.8	333.6	268.1	249.7	325.4	327.5	473.8	1394.8	4998.1	6205.7	6615.0
60°	258.9	252.8	196.5	202.6	227.2	209.8	377.6	694.9	3735.3	4834.4	5295.9
62.5°	179.1	170.9	146.3	156.6	146.3	119.7	231.3	343.9	2262.7	3052.7	3471.3
65°	131.0	121.8	100.3	86.0	68.6	68.6	88.0	132.0	876.0	1297.6	1564.7
67.5°	80.8	76.8	59.4	43.0	42.0	45.0	46.1	65.5	141.2	225.1	275.3
70°	52.2	48.1	39.9	27.6	25.6	26.6	27.6	30.7	35.8	38.9	47.1
72.5°	35.8	33.8	28.7	15.4	12.3	13.3	14.3	14.3	17.4	16.4	19.4
75°	25.6	23.5	20.5	7.2	4.1	5.1	6.1	5.1	6.1	4.1	5.1
77.5°	7.2	7.2	5.1	1.0	0.0	1.0	2.0	2.0	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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: P636719

CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7	1300.7
2.5°	1474.7	1498.2	1507.4	1494.1	1505.4	1487.0	1479.8	1452.2	1450.1	1445.0
5°	1673.2	1726.4	1758.1	1777.6	1755.1	1730.5	1693.7	1630.2	1610.8	1598.5
7.5°	1868.7	1951.6	2005.8	2031.4	2025.2	1975.1	1908.6	1802.1	1764.3	1745.9
10°	2038.5	2139.9	2205.4	2237.1	2223.8	2179.8	2084.6	1951.6	1901.4	1890.2
12.5°	2157.3	2250.4	2295.4	2323.0	2324.1	2306.7	2216.6	2082.5	2023.2	2008.9
15°	2232.0	2271.9	2272.9	2289.3	2317.9	2356.8	2314.9	2196.1	2132.7	2111.2
17.5°	2279.0	2235.0	2190.0	2194.1	2241.2	2344.5	2387.5	2296.4	2228.9	2205.4
20°	2312.8	2173.6	2089.7	2090.7	2138.8	2295.4	2437.7	2393.7	2324.1	2302.6
22.5°	2334.3	2119.4	1999.7	1996.6	2047.8	2237.1	2483.7	2509.3	2440.7	2416.2
25°	2378.3	2093.8	1945.4	1962.8	2007.8	2218.7	2546.1	2662.8	2599.3	2566.6
27.5°	2457.1	2119.4	1940.3	1980.2	2031.4	2272.9	2654.6	2867.5	2802.0	2765.1
30°	2593.2	2215.6	2019.1	2074.4	2135.8	2415.1	2836.8	3153.0	3058.8	3024.0
32.5°	2812.2	2415.1	2262.7	2381.4	2440.7	2648.5	3110.0	3473.3	3396.6	3327.0
35°	3114.1	2870.5	2853.1	3129.5	3115.1	3090.6	3445.7	3866.3	3750.6	3683.1
37.5°	3529.6	3603.3	3732.2	4006.5	3997.3	3810.0	3886.7	4237.8	4178.4	4091.4
40°	4048.4	4205.0	4424.0	4817.0	4694.2	4458.8	4428.1	4618.4	4570.4	4468.0
42.5°	4354.4	4624.6	5042.1	5395.2	5296.9	4885.5	4850.8	5127.1	5021.7	4910.1
45°	4496.7	4966.4	5785.1	6263.0	5965.2	5169.0	5155.7	5790.2	5730.8	5581.4
47.5°	4562.2	5311.3	6654.9	7378.5	6821.8	5417.7	5369.6	6752.2	6674.4	6498.4
50°	4634.8	5787.1	7702.9	8671.0	7856.4	5699.1	5733.9	7648.6	7615.9	7408.1
52.5°	4794.5	6290.6	8993.3	10148.7	9111.0	6140.2	6359.2	8493.9	8272.9	8033.4
55°	5033.9	6839.2	10336.0	11658.2	10391.3	6732.7	7035.6	8943.2	8323.0	8058.0
57.5°	4768.9	6976.3	11131.1	12712.2	10959.2	6734.8	6463.6	8164.4	7320.1	7063.3
60°	3784.4	6490.2	10825.2	12484.0	10475.2	5980.5	4949.0	6374.5	5545.6	5373.7
62.5°	2558.4	5443.3	9529.6	10558.1	8965.7	4704.4	3216.4	4145.7	3433.4	3291.1
65°	1402.0	4060.7	7699.8	7987.4	7017.2	3286.0	1654.8	1799.1	1370.3	1306.8
67.5°	386.8	2826.5	5665.4	5299.0	4923.4	2139.9	427.8	321.3	229.2	227.2
70°	97.2	1869.7	3394.5	3498.9	3018.9	1370.3	81.9	38.9	30.7	29.7
72.5°	40.9	804.4	1610.8	1851.3	1545.3	634.5	29.7	11.3	9.2	7.2
75°	5.1	64.5	137.1	207.7	142.2	68.6	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)