

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: P630780

Luminaire Tested: GWS-SA1E-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630780  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-735-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

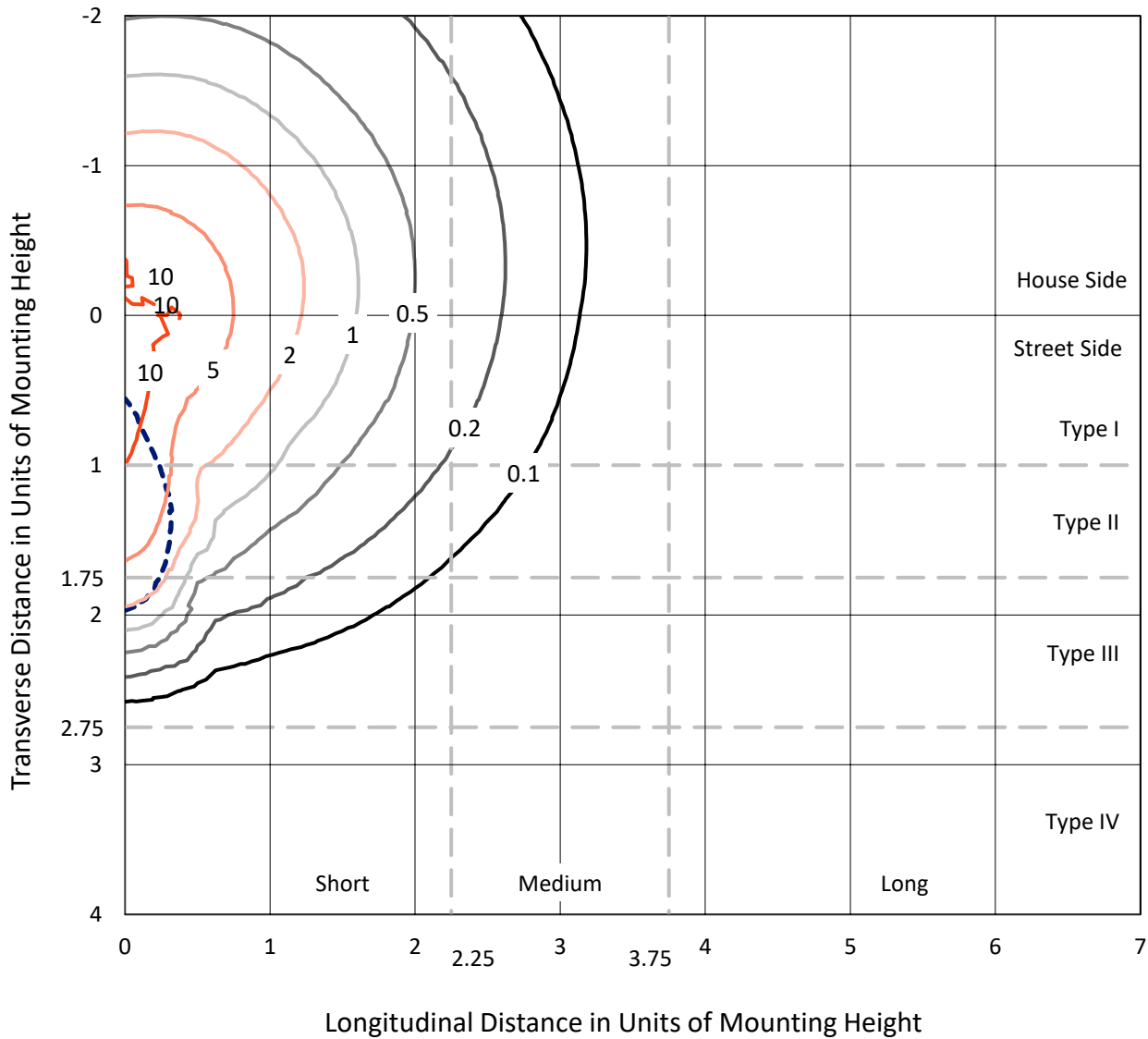
Lumens per Lamp: N/A  
Luminaire Lumens: 5817.4 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

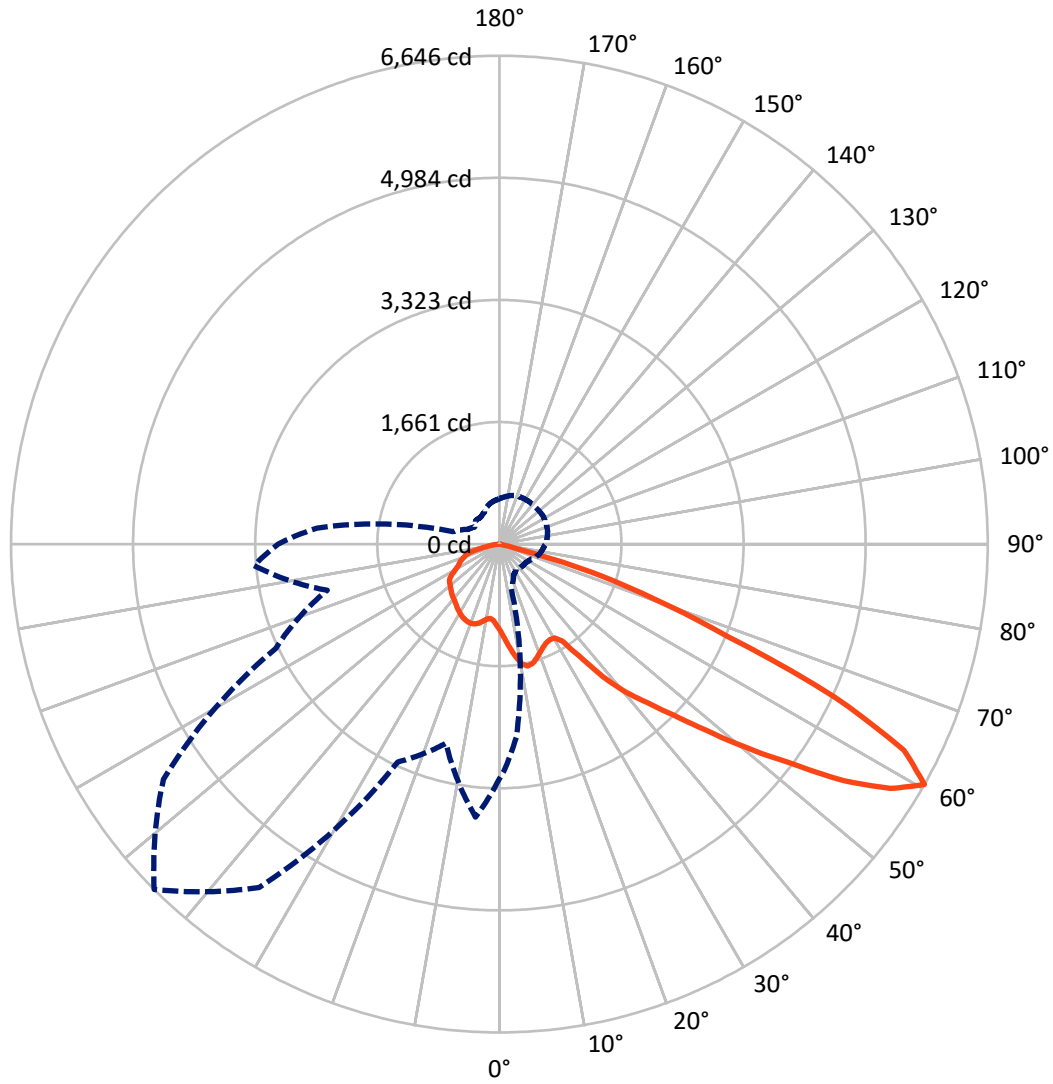
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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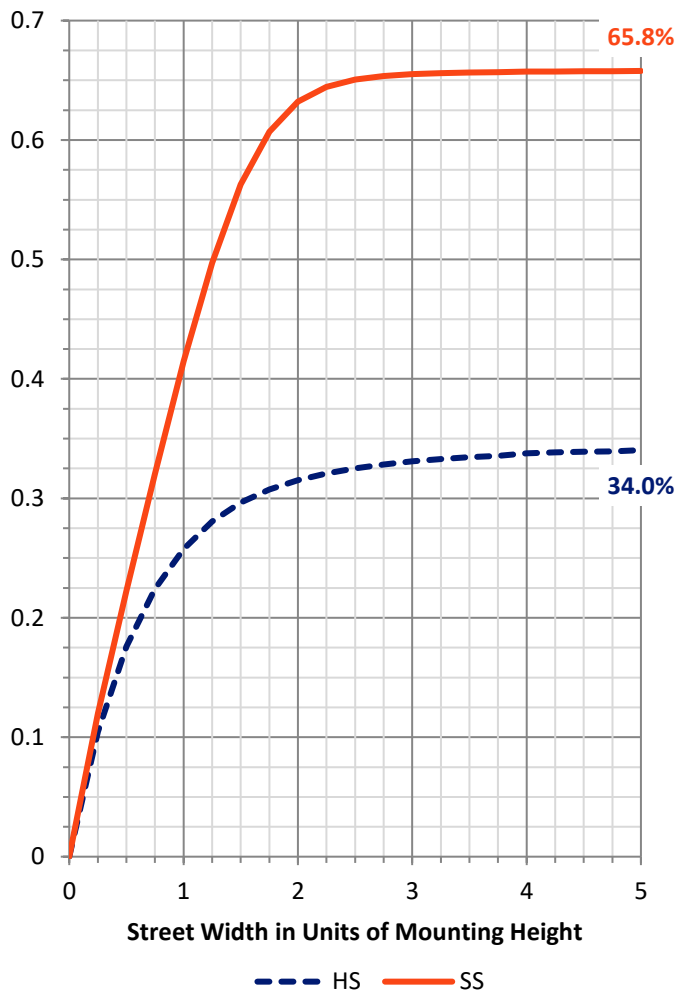
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1990.1	0.0	1990.1
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	3827.3	0.0	3827.3
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	5817.4	0.0	5817.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	2.0
10°-20°	367.7	6.3
20°-30°	598.8	10.3
30°-40°	841.2	14.5
40°-50°	1151.1	19.8
50°-60°	1476.8	25.4
60°-70°	994.4	17.1
70°-80°	248.6	4.3
80°-90°	24.2	0.4
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°	5817.4	100.0
0°-180°	5817.4	100.0

**Coefficient of Utilization**



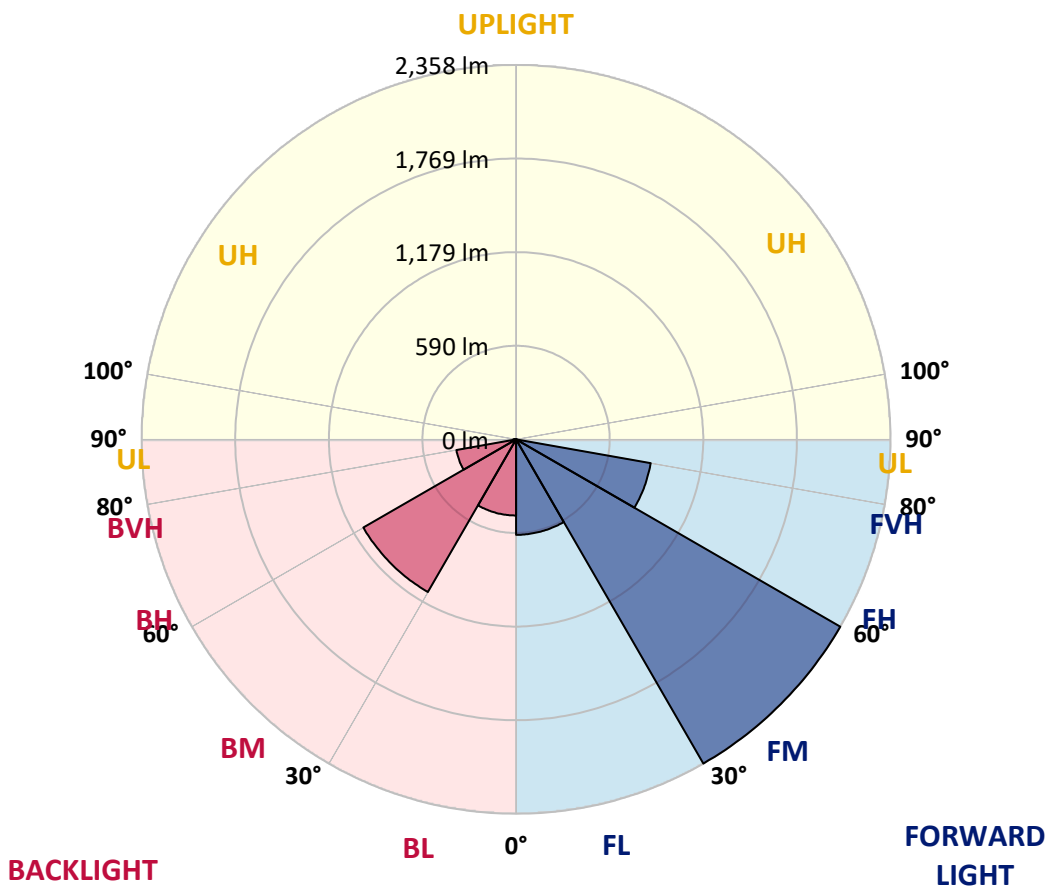
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.4	10.3			
FM (30°-60°)	2358.4	40.5			
FH (60°-80°)	861.2	14.8			G1/1800
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	479.7	8.2	B1/500		
BM (30°-60°)	1110.6	19.1	B2/2500		
BH (60°-80°)	381.8	6.6	B1/500		G1/500
BVH (80°-90°)	17.9	0.3			G1/100
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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1241.3	1238.7	1236.0	1215.1	1209.7	1194.7	1184.0	1170.6	1151.3	1140.6	1131.5
5°	1319.0	1314.7	1300.3	1257.4	1229.6	1199.0	1173.8	1146.0	1116.5	1097.2	1082.2
7.5°	1392.4	1391.4	1366.7	1296.0	1251.0	1207.1	1172.8	1132.1	1089.7	1060.8	1041.5
10°	1460.5	1452.4	1423.0	1330.8	1271.9	1221.5	1184.6	1139.6	1090.3	1051.2	1025.4
12.5°	1520.5	1510.3	1469.6	1363.0	1290.1	1228.0	1187.8	1150.8	1118.1	1085.4	1056.0
15°	1569.8	1557.4	1516.2	1393.0	1306.2	1224.2	1168.0	1139.0	1150.3	1164.7	1132.1
17.5°	1615.8	1603.0	1552.6	1414.9	1311.0	1201.2	1119.2	1106.9	1163.7	1229.6	1214.6
20°	1654.4	1640.0	1581.6	1425.6	1302.4	1157.2	1056.0	1077.4	1152.4	1231.2	1255.3
22.5°	1696.2	1684.4	1614.2	1441.2	1291.7	1096.7	1002.9	1055.4	1133.1	1202.2	1238.7
25°	1763.2	1748.7	1665.1	1468.5	1286.4	1039.9	964.9	1034.0	1106.3	1169.0	1197.4
27.5°	1860.1	1833.4	1734.8	1516.2	1292.2	986.3	940.8	1007.8	1075.3	1128.8	1151.9
30°	1965.7	1933.5	1811.9	1565.5	1300.8	953.6	927.9	977.8	1027.6	1081.2	1106.3
32.5°	2090.5	2062.1	1894.4	1602.4	1282.6	938.6	918.3	945.1	984.7	1027.6	1048.5
35°	2239.5	2188.6	1984.4	1632.5	1223.7	916.7	909.7	909.2	930.1	971.9	995.4
37.5°	2399.7	2345.0	2095.3	1664.6	1132.1	881.9	889.4	866.9	886.1	919.4	946.1
40°	2530.9	2473.6	2207.3	1708.5	1017.4	827.2	844.4	820.2	832.0	866.3	896.3
42.5°	2659.5	2598.4	2311.8	1758.4	906.5	773.6	782.2	773.1	776.8	812.7	854.5
45°	2828.3	2759.7	2440.4	1793.7	806.8	731.3	723.3	707.7	727.6	774.2	818.6
47.5°	3110.1	3028.1	2650.9	1816.8	734.5	707.2	670.2	661.1	685.8	737.7	783.8
50°	3439.6	3368.8	2987.4	1815.7	680.4	686.8	618.8	610.8	651.5	704.0	752.7
52.5°	3709.6	3637.8	3275.1	1762.1	635.9	643.4	588.8	566.3	622.0	670.8	719.5
55°	3927.6	3846.7	3407.4	1538.2	579.7	574.3	556.1	514.9	585.0	637.6	683.1
57.5°	3810.3	3713.9	3247.2	1169.6	521.8	488.1	499.9	469.3	534.7	600.6	644.5
60°	3194.7	3107.9	2638.1	622.5	459.1	407.7	432.4	437.2	479.5	556.1	601.1
62.5°	2194.5	2131.2	1787.8	377.7	362.2	327.3	365.9	400.7	432.4	497.2	536.3
65°	1073.7	1054.9	894.2	242.2	253.4	264.7	303.2	345.6	392.2	449.0	490.2
67.5°	295.7	297.9	271.1	189.1	199.8	230.9	261.4	295.2	341.8	394.3	436.1
70°	130.2	132.3	136.6	145.7	166.1	194.5	226.1	260.9	303.8	347.7	387.9
72.5°	90.5	92.7	99.1	110.9	129.1	155.9	185.9	219.1	263.6	300.6	333.8
75°	55.7	57.3	63.2	73.4	85.7	106.1	135.5	166.1	205.2	238.9	268.4
77.5°	29.5	28.4	32.1	39.1	49.8	60.5	80.4	99.7	127.5	154.8	179.5
80°	16.1	15.5	17.7	21.4	24.6	33.2	46.6	59.5	75.5	91.1	104.5
82.5°	7.0	6.4	7.0	9.1	11.3	16.1	23.6	32.7	41.8	52.5	61.1
85°	0.0	0.0	0.0	0.5	2.7	4.3	8.0	11.8	17.1	23.6	28.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.8
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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1126.2	1112.8	1111.7	1101.0	1102.1	1102.6	1091.9	1087.6	1091.3	1095.6	1093.5
5°	1076.9	1062.9	1057.0	1046.9	1045.8	1041.0	1036.7	1031.3	1035.1	1038.8	1041.0
7.5°	1034.0	1024.9	1021.2	1018.5	1019.5	1017.4	1008.8	1004.0	1003.5	1005.1	1007.2
10°	1020.1	1012.6	1017.4	1024.9	1030.3	1034.0	1024.9	1016.9	1009.4	1006.2	1006.2
12.5°	1050.1	1040.4	1050.1	1058.1	1068.8	1071.5	1061.3	1052.8	1050.1	1053.3	1059.7
15°	1116.5	1094.0	1093.5	1098.3	1106.9	1111.2	1101.5	1097.2	1097.2	1117.6	1133.7
17.5°	1183.0	1146.0	1130.4	1127.8	1133.1	1134.7	1126.7	1122.9	1132.6	1172.2	1202.2
20°	1229.6	1184.6	1150.8	1144.4	1146.0	1146.5	1140.1	1137.4	1151.3	1199.6	1224.7
22.5°	1224.7	1191.5	1150.3	1142.2	1144.9	1143.8	1137.9	1136.9	1148.1	1189.9	1201.7
25°	1191.5	1165.8	1131.0	1125.6	1129.9	1129.4	1123.5	1120.8	1125.6	1153.5	1154.6
27.5°	1153.5	1131.0	1101.0	1099.4	1106.3	1110.1	1099.9	1091.9	1090.3	1109.0	1104.7
30°	1107.9	1091.3	1067.2	1068.3	1081.2	1083.3	1071.0	1059.2	1056.0	1066.2	1060.3
32.5°	1053.8	1048.5	1035.6	1038.3	1050.6	1054.9	1042.0	1029.7	1026.0	1029.2	1016.9
35°	1007.8	1005.6	1006.7	1011.5	1022.2	1025.4	1014.7	1005.1	999.7	988.5	972.4
37.5°	960.1	966.0	981.5	990.6	996.5	995.4	989.5	982.6	974.0	953.1	933.3
40°	915.6	930.6	958.5	968.6	970.8	971.3	967.0	961.1	950.4	922.6	900.1
42.5°	881.3	897.9	934.9	950.4	951.5	952.6	948.3	943.5	928.5	891.5	869.5
45°	845.4	867.4	910.8	929.5	928.5	927.9	924.2	922.0	904.4	861.5	837.4
47.5°	814.9	840.6	887.2	903.3	902.8	902.2	899.5	899.5	881.9	835.2	807.9
50°	784.9	814.4	863.1	876.5	877.6	876.5	875.4	877.0	856.1	806.3	779.5
52.5°	752.2	785.4	836.3	848.6	855.1	857.7	857.7	854.0	829.4	777.4	747.9
55°	716.3	747.9	806.8	823.5	828.8	833.6	833.6	826.1	803.1	750.6	719.0
57.5°	671.8	699.7	746.3	762.9	775.8	779.0	779.0	766.7	747.9	697.6	671.8
60°	623.6	647.7	679.3	697.0	706.7	700.2	705.1	701.8	686.8	640.2	618.8
62.5°	559.3	584.0	618.8	637.0	641.3	634.9	641.3	640.8	620.4	578.6	552.9
65°	513.3	537.4	571.7	595.2	602.2	600.6	604.9	598.4	573.3	533.6	509.0
67.5°	458.6	484.3	524.0	550.2	564.7	566.3	572.2	558.8	533.1	489.7	458.6
70°	406.6	428.6	459.1	483.8	504.1	514.3	515.4	496.1	464.0	428.1	405.6
72.5°	352.0	374.5	411.5	438.2	464.0	475.8	475.8	452.2	417.4	377.7	353.6
75°	285.6	306.5	340.2	369.1	398.6	413.6	413.1	392.7	354.1	316.6	291.5
77.5°	193.4	208.9	230.4	252.3	256.6	268.4	274.3	248.6	227.2	206.8	184.3
80°	112.5	122.2	133.9	146.3	148.9	152.7	143.0	133.4	122.2	108.8	98.6
82.5°	65.9	72.3	78.2	87.9	89.5	90.5	82.0	77.7	68.6	60.5	54.1
85°	32.1	34.3	39.6	44.5	42.3	41.3	37.5	33.2	29.5	26.3	23.0
87.5°	6.4	6.4	9.6	9.1	7.5	6.4	3.8	4.8	1.1	1.1	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°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1100.4	1109.6	1120.8	1135.8	1152.9	1171.2	1188.8	1202.2	1215.6	1235.5	1232.2
5°	1044.2	1059.7	1077.4	1100.4	1128.3	1159.9	1195.3	1230.6	1268.7	1300.8	1314.7
7.5°	1011.5	1028.7	1049.5	1079.6	1115.4	1154.0	1203.8	1261.2	1322.8	1365.1	1391.4
10°	1011.5	1033.5	1060.8	1089.7	1121.3	1161.0	1222.6	1294.4	1373.7	1429.4	1459.9
12.5°	1069.9	1091.9	1097.8	1096.7	1114.4	1158.3	1237.6	1329.2	1424.0	1483.0	1520.5
15°	1161.0	1168.5	1124.0	1083.3	1086.0	1139.0	1244.6	1357.1	1467.4	1538.2	1578.9
17.5°	1222.1	1202.2	1122.9	1051.7	1036.7	1106.3	1244.6	1383.9	1513.5	1593.3	1631.4
20°	1226.9	1177.6	1095.6	1021.2	982.6	1062.9	1236.0	1404.2	1558.0	1646.4	1687.1
22.5°	1184.6	1135.8	1066.7	994.9	938.1	1010.4	1222.1	1419.8	1596.0	1696.2	1746.6
25°	1136.3	1095.6	1037.2	968.1	907.6	957.4	1209.2	1446.0	1649.1	1763.7	1814.6
27.5°	1089.2	1054.9	1001.9	945.6	890.4	911.3	1201.2	1484.6	1712.3	1859.6	1903.5
30°	1043.1	1012.0	963.8	924.2	881.3	881.3	1194.2	1529.1	1795.9	1967.3	2011.2
32.5°	996.5	967.0	927.9	903.3	876.0	869.5	1174.9	1570.8	1882.1	2085.2	2130.2
35°	953.1	923.6	893.6	883.5	873.3	860.4	1127.2	1603.5	1966.2	2222.9	2261.4
37.5°	912.4	884.0	861.5	858.8	859.9	835.8	1052.2	1630.8	2071.2	2363.8	2384.1
40°	877.0	845.4	827.7	827.2	832.6	796.1	957.4	1670.0	2191.2	2483.2	2474.7
42.5°	845.4	812.2	790.8	795.6	792.4	756.5	864.7	1705.9	2295.7	2595.2	2578.1
45°	814.4	782.2	752.2	759.2	755.4	731.8	786.0	1732.1	2411.4	2729.7	2731.8
47.5°	784.3	752.7	722.7	714.2	713.6	724.3	725.4	1740.7	2600.0	2946.1	2897.4
50°	756.5	724.9	693.8	664.9	676.1	709.3	680.4	1734.2	2882.4	3185.1	3049.0
52.5°	727.6	697.6	663.3	611.3	640.8	673.4	640.2	1711.2	3054.9	3396.2	3314.7
55°	694.3	665.9	619.3	556.1	592.0	599.0	599.0	1488.3	3128.3	3605.1	3655.5
57.5°	649.9	612.4	538.4	487.5	519.7	492.9	555.0	1041.5	3007.2	3539.2	3734.8
60°	599.5	559.3	481.1	444.7	454.3	407.2	473.1	653.1	2492.3	3011.5	3350.1
62.5°	533.1	496.1	431.3	402.9	383.1	332.2	380.9	413.1	1708.5	2236.2	2467.2
65°	488.6	447.9	390.0	352.5	311.8	267.3	252.9	271.1	918.8	1251.5	1407.4
67.5°	436.1	395.9	341.3	294.1	261.4	229.3	204.1	197.7	315.0	416.8	451.1
70°	386.3	347.7	302.2	258.2	225.6	193.9	169.3	151.6	145.7	144.7	142.5
72.5°	335.4	299.5	261.4	220.7	184.8	155.9	133.9	113.6	105.0	102.3	99.7
75°	274.8	246.4	208.4	164.5	135.5	108.8	91.6	78.2	70.7	68.0	64.8
77.5°	176.8	163.9	130.7	106.1	82.0	64.8	55.7	47.1	42.3	41.3	38.6
80°	94.3	87.9	72.3	61.1	48.8	39.6	34.8	30.0	27.3	26.3	25.2
82.5°	52.5	47.7	40.2	35.4	28.4	24.1	21.4	19.3	17.7	17.1	16.6
85°	23.6	20.4	16.1	15.0	13.4	12.3	11.8	10.7	10.2	9.6	9.1
87.5°	1.1	2.1	2.7	2.1	2.1	3.2	3.8	3.8	3.2	3.2	2.7
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: P630780

CATALOG NUMBER: GWS-SA1E-735-U-SLL-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3	1173.3
2.5°	1252.1	1268.1	1269.7	1275.1	1268.1	1266.5	1255.3	1248.8	1243.0	1241.3
5°	1349.6	1381.7	1394.6	1403.7	1395.1	1390.8	1366.2	1340.5	1326.0	1319.0
7.5°	1449.8	1498.0	1523.2	1534.4	1535.5	1516.2	1473.9	1425.6	1401.5	1392.4
10°	1539.2	1598.7	1631.9	1653.3	1645.8	1622.3	1564.4	1499.0	1468.5	1460.5
12.5°	1605.7	1662.5	1688.2	1702.1	1701.6	1688.7	1634.1	1563.3	1528.5	1520.5
15°	1648.5	1682.3	1683.9	1687.1	1696.2	1713.4	1685.0	1619.6	1581.0	1569.8
17.5°	1682.3	1668.9	1643.7	1635.1	1655.5	1703.2	1720.3	1667.3	1625.5	1615.8
20°	1703.7	1636.2	1591.7	1575.1	1598.7	1676.4	1741.7	1710.1	1666.7	1654.4
22.5°	1720.3	1605.7	1533.9	1522.6	1547.3	1647.5	1763.7	1761.0	1713.4	1696.2
25°	1746.6	1585.3	1493.2	1485.1	1508.2	1633.5	1793.2	1830.1	1787.8	1763.2
27.5°	1787.8	1583.2	1472.3	1469.6	1501.2	1645.8	1835.5	1931.4	1878.4	1860.1
30°	1845.1	1603.5	1477.1	1482.4	1521.0	1690.3	1901.4	2047.1	1994.1	1965.7
32.5°	1927.7	1658.2	1550.5	1573.5	1601.9	1761.6	1997.8	2172.5	2132.3	2090.5
35°	2036.4	1808.2	1767.5	1865.5	1838.7	1917.5	2114.1	2324.6	2275.9	2239.5
37.5°	2181.6	2115.7	2153.2	2288.2	2223.4	2212.1	2256.1	2462.9	2436.1	2399.7
40°	2385.2	2398.6	2467.7	2645.0	2551.3	2478.9	2430.2	2566.8	2575.9	2530.9
42.5°	2520.2	2581.8	2748.4	2949.9	2820.8	2647.7	2575.9	2699.7	2700.2	2659.5
45°	2570.6	2731.8	3080.1	3312.0	3096.1	2744.1	2656.3	2880.2	2874.9	2828.3
47.5°	2552.3	2858.3	3424.6	3779.2	3449.7	2812.7	2645.0	3137.4	3180.8	3110.1
50°	2514.3	2985.2	3826.9	4351.4	3883.7	2885.6	2627.9	3422.4	3494.2	3439.6
52.5°	2552.9	3126.7	4302.7	4942.9	4428.0	3001.8	2743.6	3788.3	3775.5	3709.6
55°	2675.0	3293.8	4880.7	5686.0	5025.9	3198.5	3041.0	4137.1	4006.4	3927.6
57.5°	2669.1	3413.3	5387.6	6273.7	5546.2	3359.7	3144.4	4174.1	3910.0	3810.3
60°	2422.7	3358.7	5580.4	6645.5	5703.1	3270.8	2804.2	3728.3	3299.2	3194.7
62.5°	1808.2	2980.4	5206.5	6180.0	5259.0	2825.0	2108.7	2676.1	2370.7	2194.5
65°	1156.7	2331.6	4377.1	5006.6	4334.8	2160.7	1255.8	1434.8	1124.0	1073.7
67.5°	492.4	1645.8	3402.6	3346.3	3242.9	1399.9	484.9	404.0	301.1	295.7
70°	162.9	1119.7	2097.5	2232.0	1936.8	964.4	160.2	135.5	135.0	130.2
72.5°	106.6	601.1	1180.8	1314.7	1246.2	555.0	97.0	90.5	92.7	90.5
75°	63.8	130.7	198.8	258.2	198.8	93.2	58.4	57.3	58.4	55.7
77.5°	37.5	36.4	35.4	35.4	34.8	32.1	29.5	28.4	28.9	29.5
80°	24.1	23.0	22.0	21.4	18.8	17.7	16.6	15.5	15.5	16.1
82.5°	15.5	14.5	13.4	11.8	9.6	8.0	7.5	6.4	6.4	7.0
85°	8.0	6.4	4.8	3.8	2.1	1.1	0.0	0.0	0.0	0.0
87.5°	1.6	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

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