

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: P633092

Luminaire Tested: GWS-SA2E-722-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2E-722-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

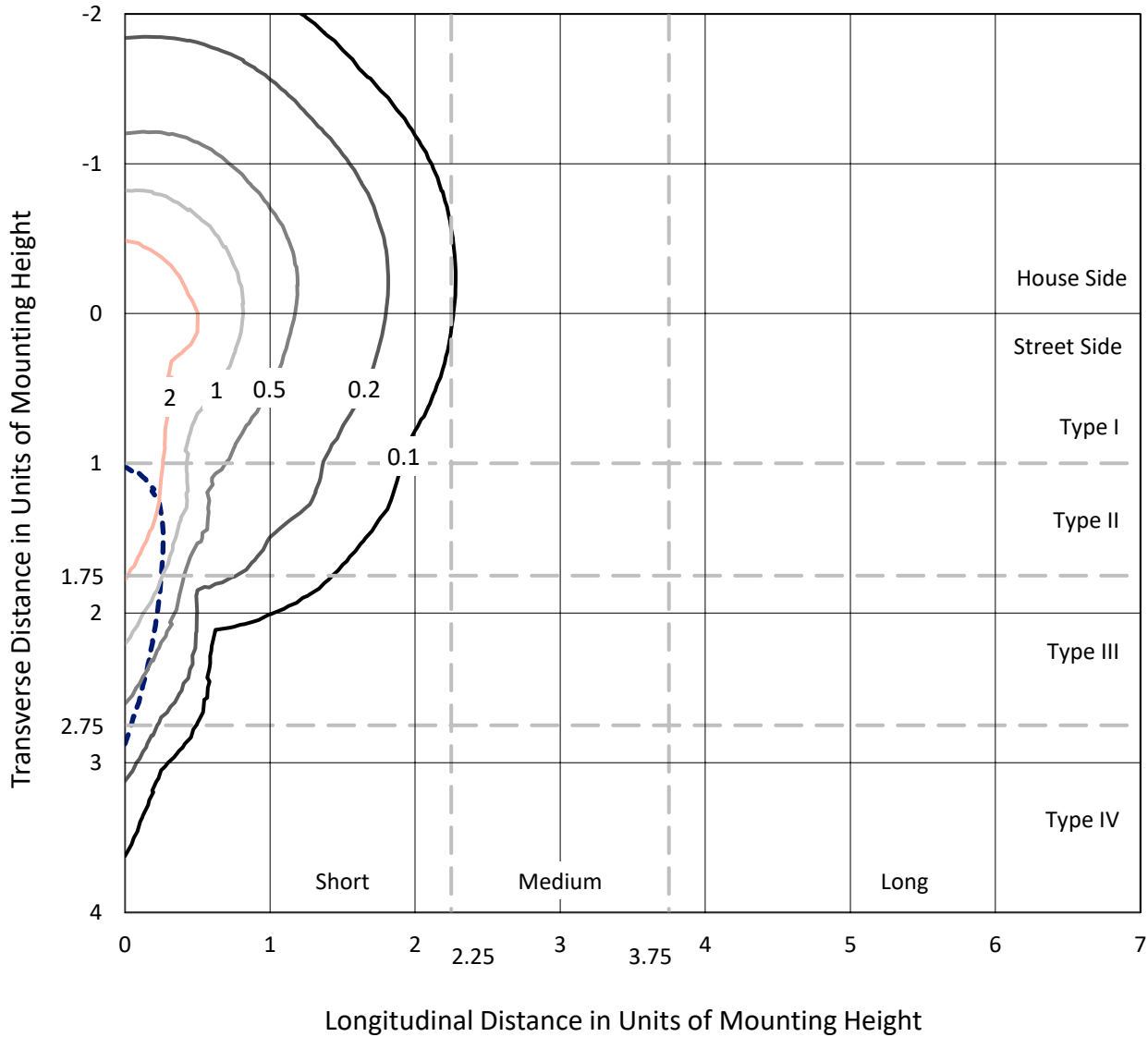
Lumens per Lamp: N/A  
Luminaire Lumens: 10073.1 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

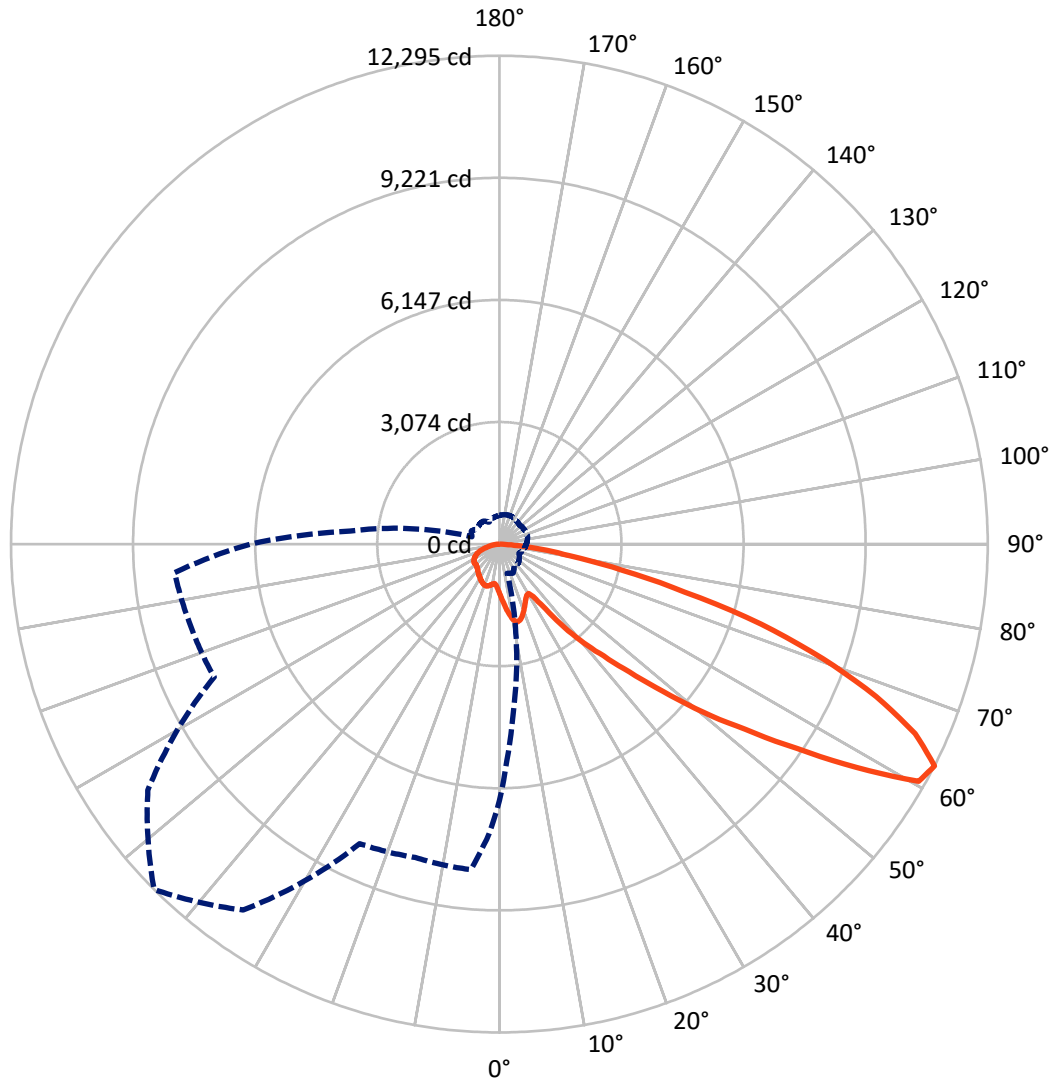
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2408.5	0.0	2408.5
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7664.6	0.0	7664.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	10073.1	0.0	10073.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.7	1.2
10°-20°	402.1	4.0
20°-30°	633.0	6.3
30°-40°	867.7	8.6
40°-50°	1353.8	13.4
50°-60°	2334.2	23.2
60°-70°	2705.1	26.9
70°-80°	1427.9	14.2
80°-90°	225.6	2.2
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°	10073.1	100.0
0°-180°	10073.1	100.0

**Coefficient of Utilization**



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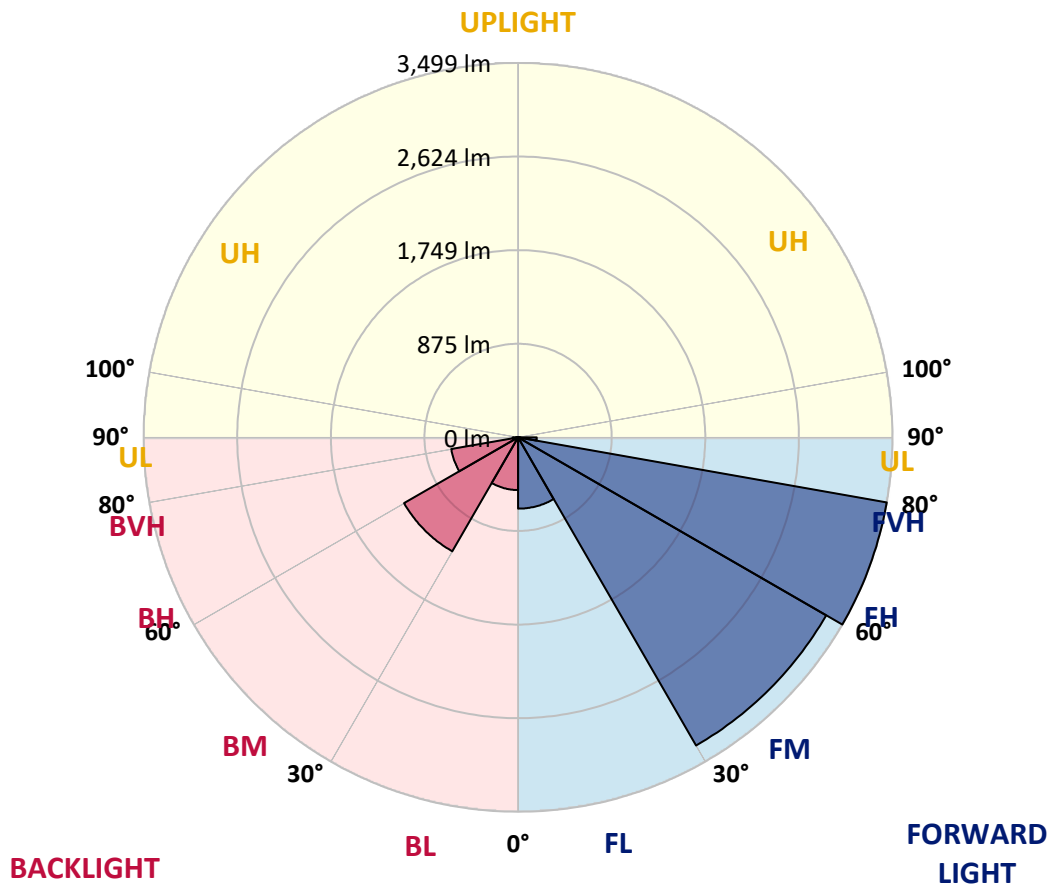
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.2	6.6			
FM (30°-60°)	3325.5	33.0			
FH (60°-80°)	3498.8	34.7			G2/5000
FVH (80°-90°)	174.1	1.7			G2/225
BL (0°-30°)	492.6	4.9	B1/500		
BM (30°-60°)	1230.2	12.2	B2/2500		
BH (60°-80°)	634.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	51.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9
2.5°	1364.5	1359.2	1351.4	1325.3	1309.1	1290.6	1271.3	1249.0	1223.5	1205.8	1188.1
5°	1480.1	1471.6	1453.2	1390.7	1347.6	1300.6	1261.3	1216.6	1172.7	1142.6	1112.6
7.5°	1591.1	1580.3	1551.8	1456.2	1386.1	1318.3	1259.0	1194.3	1128.8	1084.1	1048.6
10°	1702.0	1679.7	1643.5	1518.6	1426.2	1347.6	1279.8	1200.4	1113.4	1052.5	1014.7
12.5°	1786.8	1766.0	1726.7	1575.7	1466.3	1367.6	1291.3	1218.2	1144.2	1079.5	1040.9
15°	1866.1	1839.2	1794.5	1628.8	1499.4	1366.9	1268.2	1204.3	1193.5	1177.3	1127.2
17.5°	1923.2	1898.5	1852.3	1672.0	1517.9	1343.0	1204.3	1166.5	1215.1	1264.4	1216.6
20°	1973.2	1944.7	1897.7	1702.0	1521.7	1289.8	1126.5	1127.2	1203.5	1271.3	1259.8
22.5°	2015.6	1984.0	1942.4	1735.9	1520.2	1215.8	1058.7	1104.9	1181.2	1234.3	1235.9
25°	2068.0	2041.8	2007.1	1786.0	1520.2	1140.3	1009.3	1077.9	1143.4	1188.1	1186.6
27.5°	2132.0	2114.2	2085.7	1862.3	1534.1	1077.2	981.6	1043.3	1094.9	1133.4	1132.6
30°	2203.6	2187.4	2165.9	1943.2	1557.9	1030.2	966.2	1000.1	1037.9	1068.7	1068.7
32.5°	2276.8	2270.6	2247.5	2007.9	1539.4	1015.5	953.1	957.0	977.0	1002.4	1000.1
35°	2378.5	2372.4	2343.1	2058.0	1459.3	994.7	932.3	913.0	915.3	931.5	936.9
37.5°	2527.2	2518.0	2474.8	2116.6	1338.3	942.3	898.4	866.8	859.9	866.8	876.8
40°	2706.7	2692.9	2634.3	2195.9	1198.9	871.4	845.2	819.0	807.5	809.8	821.3
42.5°	2931.7	2902.5	2818.5	2279.9	1061.0	809.0	785.9	769.7	756.6	755.1	777.4
45°	3296.9	3216.8	3083.5	2354.6	944.6	775.9	732.7	721.2	710.4	716.6	742.8
47.5°	3934.9	3787.0	3527.3	2418.6	873.7	776.7	690.4	678.0	677.3	689.6	718.9
50°	4811.7	4598.3	4197.7	2461.7	836.8	785.9	664.9	644.9	659.5	671.9	699.6
52.5°	5651.6	5325.7	4848.7	2461.0	820.6	787.4	671.9	614.1	659.5	662.6	688.8
55°	6368.9	5778.7	5024.4	2208.2	797.5	781.3	698.8	590.2	651.1	662.6	683.4
57.5°	6939.1	6066.9	5011.3	1783.7	867.6	747.4	715.0	584.8	626.4	664.2	688.1
60°	6875.9	5935.1	4688.5	1094.9	860.6	687.3	712.7	594.8	584.8	643.4	682.7
62.5°	6456.0	5462.8	4132.9	759.7	808.2	652.6	675.0	612.5	546.3	613.3	656.5
65°	5868.1	4853.3	3444.1	582.5	669.6	654.2	611.0	600.2	512.4	565.5	611.8
67.5°	5090.7	4097.5	2719.1	461.5	466.9	566.3	554.8	533.2	480.8	523.2	564.8
70°	3827.0	2990.3	1870.8	371.4	353.7	473.1	498.5	479.2	450.0	462.3	506.2
72.5°	2696.7	1952.4	1024.8	294.3	272.8	363.7	433.0	429.9	397.6	406.8	450.0
75°	2004.1	1381.5	640.3	232.7	221.9	260.4	362.9	372.1	345.2	356.0	389.1
77.5°	1333.7	894.5	356.0	172.6	172.6	190.3	270.4	313.6	293.6	302.0	325.1
80°	735.8	455.4	178.0	113.3	116.3	131.0	197.2	225.8	226.5	247.3	253.5
82.5°	232.7	144.9	79.4	66.3	62.4	74.7	127.1	161.8	151.0	192.6	177.2
85°	53.2	33.9	14.6	14.6	16.2	24.7	48.5	86.3	110.2	132.5	96.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	33.9	50.1	44.7
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°	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9
2.5°	1177.3	1161.9	1157.3	1144.2	1142.6	1130.3	1125.7	1125.7	1131.1	1131.1	1136.5
5°	1100.3	1081.0	1070.2	1054.8	1051.0	1041.7	1035.5	1036.3	1043.3	1047.9	1057.1
7.5°	1032.5	1019.4	1011.7	1004.7	1003.2	1001.6	994.7	993.9	996.3	1003.2	1010.1
10°	1004.0	994.7	997.0	1002.4	1010.9	1015.5	1009.3	1006.3	1004.0	1008.6	1014.7
12.5°	1031.7	1022.4	1027.1	1036.3	1047.9	1052.5	1050.2	1049.4	1051.7	1069.4	1082.5
15°	1092.6	1074.8	1068.7	1072.5	1081.8	1086.4	1084.1	1087.2	1101.8	1148.0	1181.2
17.5°	1168.1	1124.9	1100.3	1093.3	1097.2	1101.0	1101.0	1108.7	1134.2	1202.0	1243.6
20°	1208.9	1152.7	1111.1	1094.1	1095.6	1099.5	1099.5	1110.3	1138.8	1211.2	1238.2
22.5°	1198.1	1146.5	1095.6	1077.2	1077.9	1081.0	1081.0	1090.3	1115.7	1179.6	1192.0
25°	1155.7	1110.3	1060.2	1044.0	1045.6	1051.0	1049.4	1054.8	1074.1	1126.5	1133.4
27.5°	1104.9	1064.8	1015.5	1003.2	1010.1	1020.9	1011.7	1012.4	1030.2	1074.1	1074.8
30°	1050.2	1017.1	973.1	963.9	977.0	982.4	973.9	973.9	991.6	1021.7	1020.9
32.5°	990.9	970.1	938.5	928.4	943.1	951.6	940.8	942.3	956.2	976.2	968.5
35°	935.4	924.6	910.0	903.0	912.3	920.0	913.0	916.1	929.2	934.6	923.8
37.5°	882.2	880.7	882.2	882.2	884.5	886.8	882.2	889.9	901.5	894.5	882.2
40°	836.0	842.2	856.8	852.9	850.6	852.9	849.9	863.0	874.5	862.2	847.5
42.5°	797.5	809.0	831.4	831.4	826.7	828.3	826.7	842.9	851.4	834.4	818.3
45°	764.3	781.3	809.8	813.6	805.9	805.9	809.0	829.1	832.1	809.0	792.1
47.5°	741.2	762.0	794.4	801.3	789.8	789.0	797.5	819.0	819.0	792.1	772.8
50°	725.0	748.2	786.7	795.9	784.4	781.3	795.2	816.0	811.3	779.0	759.7
52.5°	714.2	738.1	785.9	799.0	791.3	788.2	802.1	816.7	805.2	770.5	750.5
55°	707.3	733.5	788.2	799.0	790.5	785.1	799.0	812.1	805.9	765.9	746.6
57.5°	711.2	737.4	785.1	790.5	780.5	771.3	787.4	805.9	803.6	767.4	748.2
60°	705.0	728.9	768.2	769.7	752.8	738.1	762.0	789.8	789.8	762.0	745.1
62.5°	676.5	700.4	735.1	736.6	717.3	701.2	728.9	762.0	761.2	738.9	721.2
65°	629.5	651.8	691.1	695.0	675.7	658.8	687.3	718.1	720.4	700.4	685.0
67.5°	577.9	597.9	627.2	642.6	626.4	608.7	634.9	664.2	663.4	639.5	623.3
70°	516.2	534.7	561.7	574.8	564.8	547.8	571.7	587.1	580.2	568.6	557.8
72.5°	455.4	473.1	498.5	498.5	487.7	471.5	478.5	506.2	514.7	506.2	499.3
75°	391.4	406.8	424.5	428.4	404.5	375.2	407.6	431.5	441.5	437.6	429.2
77.5°	325.9	337.5	363.7	356.7	312.1	296.6	322.8	358.3	365.2	362.9	351.3
80°	251.2	258.1	285.9	272.0	237.3	227.3	238.9	266.6	268.1	260.4	245.8
82.5°	168.7	178.0	196.5	169.5	168.7	159.5	150.2	153.3	167.2	165.7	155.6
85°	86.3	90.9	108.6	101.7	87.1	75.5	71.7	76.3	68.6	62.4	53.9
87.5°	36.2	39.3	53.9	30.0	9.2	0.0	0.0	4.6	6.9	10.0	10.8
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9
2.5°	1148.8	1157.3	1178.1	1204.3	1229.7	1255.9	1284.4	1302.1	1323.7	1351.4	1352.2
5°	1068.7	1087.9	1118.0	1158.1	1199.7	1247.4	1302.9	1349.1	1404.6	1448.5	1466.3
7.5°	1019.4	1047.1	1084.9	1135.7	1190.4	1249.7	1322.2	1400.0	1490.9	1549.5	1584.1
10°	1024.0	1066.4	1104.1	1147.3	1196.6	1260.5	1353.8	1457.0	1568.7	1645.8	1688.9
12.5°	1106.4	1151.1	1144.2	1141.9	1175.0	1252.8	1379.2	1514.8	1651.2	1728.2	1779.8
15°	1210.4	1227.4	1161.9	1112.6	1132.6	1225.1	1393.1	1566.4	1719.7	1813.7	1864.6
17.5°	1263.6	1229.7	1150.3	1076.4	1071.0	1182.7	1400.0	1618.8	1796.8	1890.8	1944.7
20°	1239.0	1189.6	1122.6	1052.5	1014.0	1124.9	1396.1	1660.4	1866.9	1971.7	2015.6
22.5°	1185.8	1142.6	1090.3	1023.2	967.7	1061.7	1386.1	1702.0	1929.3	2034.9	2073.4
25°	1128.0	1095.6	1052.5	993.9	941.5	1006.3	1379.2	1757.5	2001.0	2101.9	2126.6
27.5°	1070.2	1046.3	1010.9	965.4	935.4	967.7	1381.5	1829.9	2093.4	2189.0	2179.0
30°	1013.2	992.4	967.7	947.7	934.6	958.5	1375.3	1907.0	2195.1	2283.7	2224.4
32.5°	959.3	940.0	924.6	927.7	935.4	962.3	1343.7	1977.1	2288.4	2363.9	2273.7
35°	913.0	893.0	893.0	903.8	932.3	949.2	1262.1	2031.8	2391.6	2467.1	2343.8
37.5°	869.9	852.2	863.7	881.4	908.4	913.8	1157.3	2085.0	2541.9	2612.7	2452.5
40°	832.1	814.4	835.2	857.6	871.4	869.1	1051.0	2158.9	2719.1	2792.3	2596.6
42.5°	802.1	785.9	804.4	832.9	835.2	837.5	973.1	2229.8	2924.8	3018.0	2844.7
45°	777.4	765.9	775.1	803.6	803.6	839.1	924.6	2289.1	3234.5	3399.4	3300.0
47.5°	758.2	751.2	755.9	765.1	780.5	866.8	893.8	2334.6	3798.5	4122.1	4022.0
50°	747.4	740.4	746.6	727.3	773.6	880.7	883.8	2369.3	4542.1	5049.1	4925.0
52.5°	738.1	735.8	739.7	695.0	789.0	871.4	876.1	2323.0	5040.6	5961.3	6083.8
55°	735.1	736.6	718.1	671.1	807.5	840.6	852.9	1992.5	5176.2	6748.0	7508.5
57.5°	736.6	732.0	685.0	673.4	808.2	779.0	886.1	1421.6	4978.9	7090.1	8902.3
60°	731.2	708.1	644.9	694.2	772.8	706.5	862.2	926.9	4458.9	6827.4	8983.2
62.5°	707.3	673.4	610.2	705.8	709.6	663.4	782.8	714.2	3765.4	6264.9	8203.5
65°	672.6	627.2	581.0	681.9	645.7	643.4	588.7	572.5	3028.0	5595.3	7463.8
67.5°	615.6	570.2	559.4	627.2	581.0	570.2	473.1	474.6	2416.3	4881.9	6720.3
70°	550.9	505.4	513.9	567.1	517.0	473.9	382.9	395.3	1833.0	4067.4	5717.8
72.5°	508.5	447.7	448.4	499.3	454.6	383.7	315.1	325.9	1163.4	3065.8	4545.9
75°	429.2	394.5	377.5	404.5	386.0	299.0	265.1	262.7	689.6	2197.5	3404.0
77.5°	358.3	331.3	322.8	333.6	288.2	221.1	213.4	209.6	390.6	1407.7	2230.6
80°	259.7	252.7	252.0	257.3	221.9	162.6	162.6	163.3	210.3	764.3	1257.4
82.5°	164.9	180.3	159.5	177.2	151.0	115.6	107.9	122.5	121.0	325.9	530.1
85°	68.6	94.0	87.8	93.2	71.7	63.2	67.8	73.2	70.1	125.6	206.5
87.5°	13.1	15.4	17.0	16.2	16.2	20.0	22.3	27.0	27.0	36.2	62.4
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-SA2E-722-U-SLL-W

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9	1255.9
2.5°	1381.5	1403.8	1399.2	1409.2	1396.1	1400.8	1374.6	1367.6	1363.0	1364.5
5°	1523.3	1568.7	1577.2	1594.2	1582.6	1582.6	1536.4	1501.7	1489.4	1480.1
7.5°	1667.4	1732.8	1776.0	1780.6	1774.5	1762.1	1695.1	1632.7	1610.3	1591.1
10°	1795.3	1873.8	1922.4	1945.5	1933.9	1914.7	1831.5	1745.9	1719.0	1702.0
12.5°	1893.1	1962.5	1994.8	2010.2	2008.7	2001.7	1933.9	1841.5	1813.0	1786.8
15°	1956.3	1991.0	1978.6	1977.9	1988.6	2016.4	1995.6	1923.2	1890.0	1866.1
17.5°	1997.1	1964.0	1909.3	1883.9	1907.0	1972.5	2020.2	1979.4	1949.4	1923.2
20°	2011.8	1893.9	1814.5	1767.5	1794.5	1889.3	2007.1	2020.2	1994.8	1973.2
22.5°	1994.8	1808.4	1700.5	1645.0	1671.2	1784.5	1968.6	2053.4	2036.4	2015.6
25°	1953.2	1719.0	1589.5	1539.4	1568.0	1683.5	1900.0	2084.2	2085.0	2068.0
27.5°	1901.6	1636.5	1511.7	1464.7	1492.4	1600.3	1833.0	2111.2	2138.1	2132.0
30°	1849.2	1587.2	1474.7	1441.6	1462.4	1557.9	1764.4	2138.9	2192.8	2203.6
32.5°	1825.3	1611.1	1561.8	1576.4	1549.5	1582.6	1739.8	2178.2	2259.1	2276.8
35°	1856.9	1823.0	1947.8	2005.6	1910.1	1784.5	1771.4	2237.5	2352.3	2378.5
37.5°	2010.2	2276.8	2463.3	2666.7	2501.0	2224.4	1927.8	2338.5	2485.6	2527.2
40°	2343.8	2672.8	3009.6	3272.3	3021.9	2649.7	2225.2	2488.7	2669.0	2706.7
42.5°	2658.2	3044.2	3508.1	3847.9	3522.7	2997.2	2545.7	2741.4	2910.9	2931.7
45°	2966.4	3408.7	4111.4	4583.7	4142.2	3327.8	2873.2	3168.3	3296.2	3296.9
47.5°	3327.8	3819.3	4868.0	5540.6	4964.3	3693.8	3180.6	3844.0	4022.0	3934.9
50°	3760.0	4227.7	5647.0	6654.0	5966.7	4143.7	3571.2	4667.7	4910.4	4811.7
52.5°	4338.7	4677.7	6505.3	7739.6	7059.3	4656.1	4137.6	5755.6	5835.7	5651.6
55°	5153.1	5327.2	7607.1	9080.3	8279.0	5287.1	4965.8	7120.9	6896.7	6368.9
57.5°	7007.7	6355.0	9021.7	10609.7	9658.9	6433.6	6781.1	8626.5	7829.0	6939.1
60°	8559.4	7603.2	10330.8	12127.6	10841.6	7697.2	8485.5	8888.4	7794.3	6875.9
62.5°	8036.3	7921.5	10803.1	12294.8	11245.4	8319.0	8168.8	8228.1	7285.8	6456.0
65°	7050.8	7307.4	10381.7	11502.0	10797.7	7762.0	7389.0	7617.9	6704.1	5868.1
67.5°	6469.1	6657.8	9632.0	10232.9	9984.1	7159.4	6782.7	6617.0	5801.1	5090.7
70°	5874.3	6030.7	8579.5	8640.3	8715.1	6157.8	5546.0	5052.9	4324.0	3827.0
72.5°	5076.0	5084.5	7248.8	6895.9	7037.7	4818.7	4464.2	3777.7	3147.5	2696.7
75°	4258.5	4025.8	5737.9	4820.2	5104.5	3748.5	3706.9	2847.0	2373.9	2004.1
77.5°	3246.9	2974.9	4191.5	3169.8	3585.1	2496.4	2786.9	1930.9	1670.4	1333.7
80°	2179.7	2010.2	2316.1	1789.1	2345.4	1720.5	1817.6	1094.1	948.5	735.8
82.5°	1149.6	981.6	1431.6	1061.0	1414.6	945.4	681.9	338.2	288.2	232.7
85°	445.3	515.5	701.9	377.5	548.6	337.5	197.2	84.0	70.1	53.2
87.5°	86.3	133.3	73.2	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)