

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: P632762

Luminaire Tested: GWS-SA2D-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632762
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-SA2D-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10793.3 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

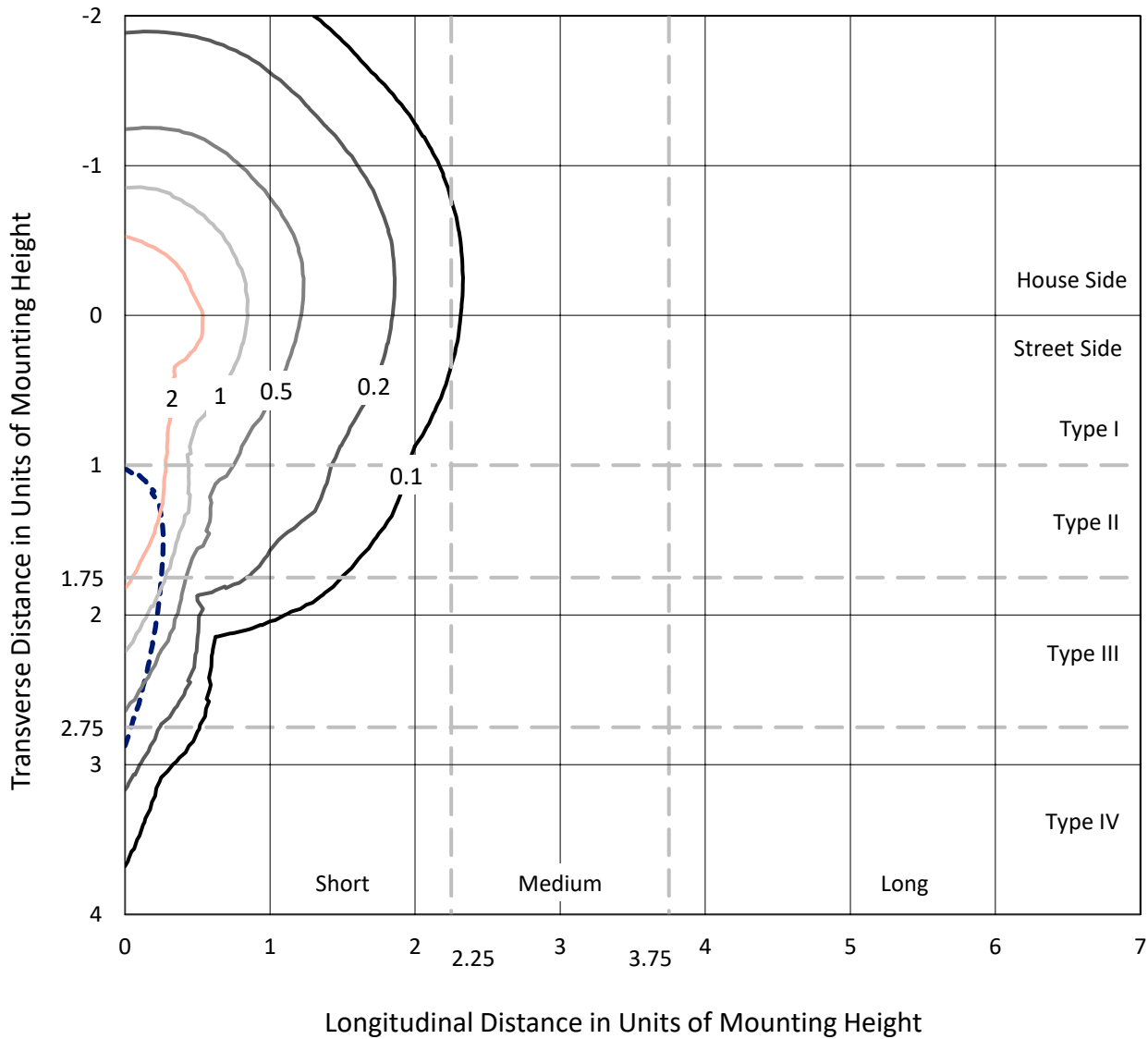
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

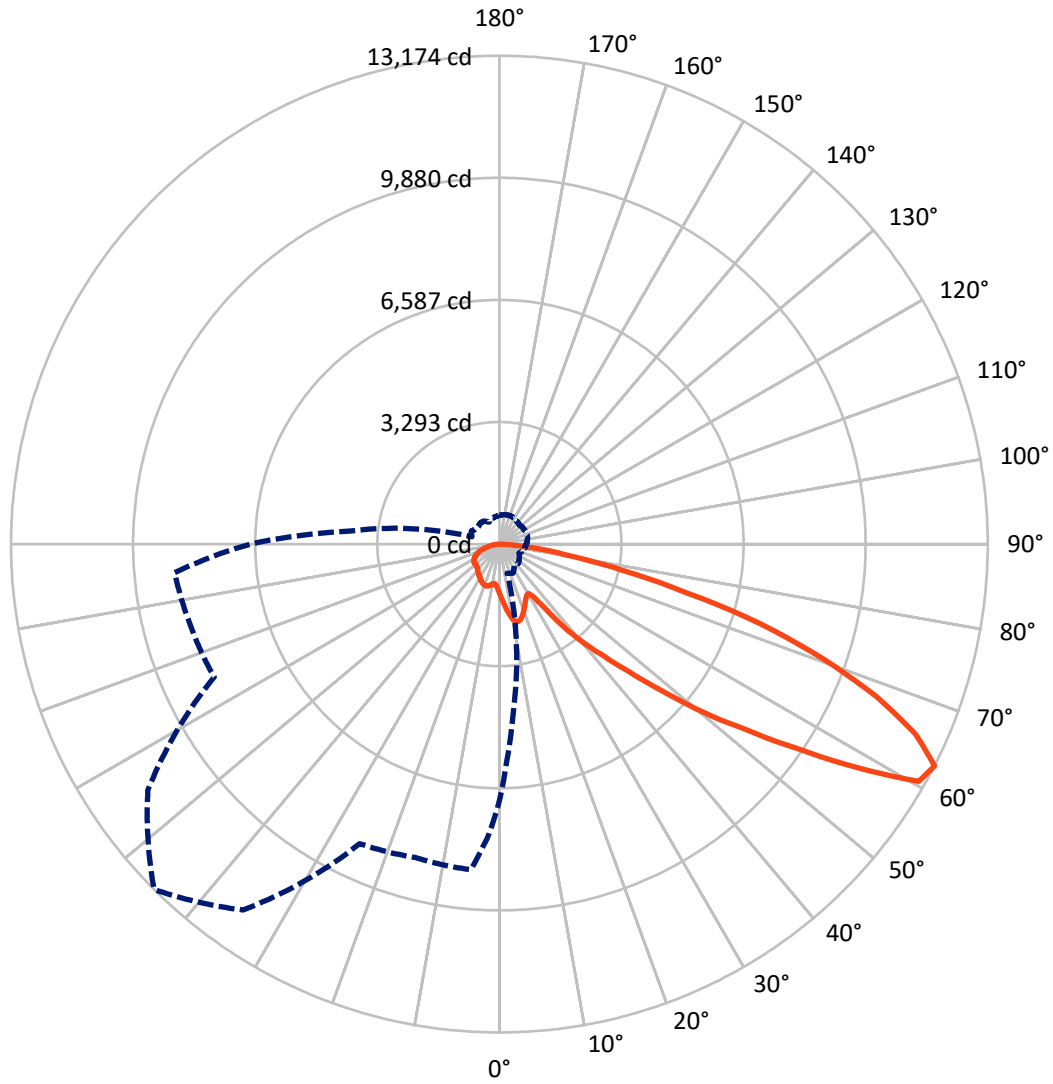
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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
House Side	Lumens	2580.7	0.0	2580.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8212.6	0.0	8212.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	10793.3	0.0	10793.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.2
10°-20°	430.9	4.0
20°-30°	678.3	6.3
30°-40°	929.7	8.6
40°-50°	1450.6	13.4
50°-60°	2501.1	23.2
60°-70°	2898.5	26.9
70°-80°	1530.0	14.2
80°-90°	241.7	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°	10793.3	100.0
0°-180°	10793.3	100.0

Coefficient of Utilization



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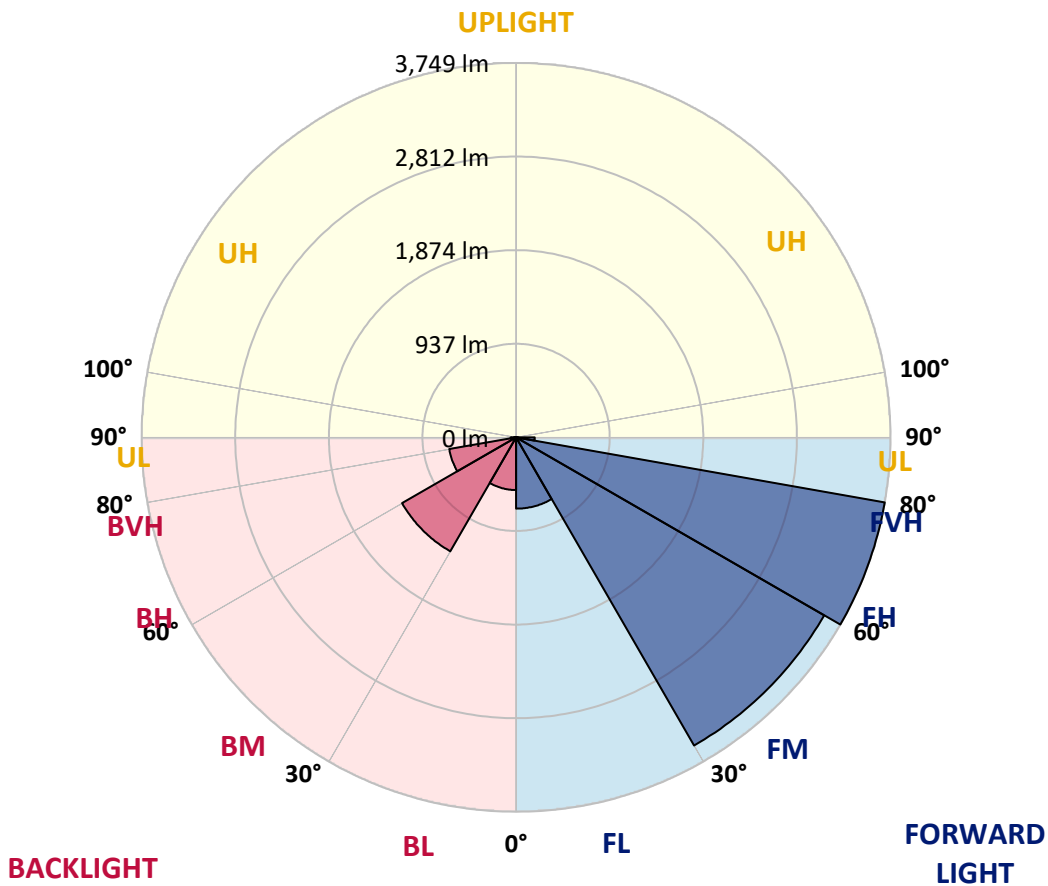
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.8	6.6			
FM (30°-60°)	3563.2	33.0			
FH (60°-80°)	3749.0	34.7			G2/5000
FVH (80°-90°)	186.5	1.7			G2/225
BL (0°-30°)	527.8	4.9	B2/1000		
BM (30°-60°)	1318.2	12.2	B2/2500		
BH (60°-80°)	679.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	55.1	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°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1462.1	1456.3	1448.1	1420.0	1402.7	1382.9	1362.2	1338.3	1311.0	1292.0	1273.0
5°	1585.9	1576.9	1557.1	1490.2	1443.9	1393.6	1351.5	1303.6	1256.5	1224.3	1192.1
7.5°	1704.8	1693.3	1662.7	1560.4	1485.2	1412.6	1349.0	1279.7	1209.5	1161.6	1123.6
10°	1823.7	1799.8	1761.0	1627.2	1528.2	1443.9	1371.3	1286.3	1193.0	1127.7	1087.3
12.5°	1914.5	1892.2	1850.1	1688.3	1571.1	1465.4	1383.7	1305.2	1226.0	1156.6	1115.4
15°	1999.6	1970.7	1922.8	1745.3	1606.6	1464.6	1358.9	1290.4	1278.8	1261.5	1207.8
17.5°	2060.7	2034.2	1984.7	1791.5	1626.4	1439.0	1290.4	1249.9	1301.9	1354.8	1303.6
20°	2114.3	2083.8	2033.4	1823.7	1630.5	1382.0	1207.0	1207.8	1289.6	1362.2	1349.8
22.5°	2159.7	2125.9	2081.3	1860.0	1628.9	1302.8	1134.4	1183.9	1265.6	1322.6	1324.2
25°	2215.9	2187.8	2150.6	1913.7	1628.9	1221.9	1081.5	1155.0	1225.2	1273.0	1271.4
27.5°	2284.4	2265.4	2234.9	1995.4	1643.7	1154.2	1051.8	1117.8	1173.2	1214.4	1213.6
30°	2361.2	2343.8	2320.7	2082.1	1669.3	1103.8	1035.3	1071.6	1112.1	1145.1	1145.1
32.5°	2439.6	2433.0	2408.2	2151.5	1649.5	1088.1	1021.2	1025.4	1046.8	1074.1	1071.6
35°	2548.6	2542.0	2510.6	2205.1	1563.7	1065.8	999.0	978.3	980.8	998.1	1003.9
37.5°	2707.9	2698.0	2651.8	2267.9	1434.0	1009.7	962.6	928.8	921.4	928.8	939.5
40°	2900.3	2885.4	2822.7	2352.9	1284.6	933.7	905.7	877.6	865.2	867.7	880.1
42.5°	3141.3	3110.0	3020.0	2442.9	1136.8	866.9	842.1	824.8	810.7	809.1	833.0
45°	3532.7	3446.8	3304.0	2523.0	1012.2	831.4	785.1	772.7	761.2	767.8	795.9
47.5°	4216.3	4057.7	3779.5	2591.5	936.2	832.2	739.7	726.5	725.7	738.9	770.3
50°	5155.8	4927.1	4497.8	2637.7	896.6	842.1	712.5	691.0	706.7	719.9	749.6
52.5°	6055.7	5706.4	5195.4	2636.9	879.2	843.7	719.9	658.0	706.7	710.0	738.1
55°	6824.3	6191.9	5383.6	2366.1	854.5	837.1	748.8	632.4	697.6	710.0	732.3
57.5°	7435.2	6500.6	5369.6	1911.2	929.6	800.8	766.1	626.6	671.2	711.7	737.2
60°	7367.5	6359.5	5023.7	1173.2	922.2	736.4	763.7	637.4	626.6	689.4	731.5
62.5°	6917.6	5853.4	4428.4	814.0	866.0	699.3	723.2	656.3	585.3	657.2	703.4
65°	6287.6	5200.4	3690.4	624.1	717.4	700.9	654.7	643.1	549.0	606.0	655.5
67.5°	5454.6	4390.5	2913.5	494.5	500.3	606.8	594.4	571.3	515.2	560.6	605.2
70°	4100.7	3204.1	2004.5	397.9	378.9	506.9	534.2	513.5	482.1	495.4	542.4
72.5°	2889.5	2092.0	1098.0	315.4	292.3	389.7	464.0	460.7	426.0	435.9	482.1
75°	2147.3	1480.3	686.1	249.3	237.8	279.0	388.8	398.8	369.9	381.4	416.9
77.5°	1429.1	958.5	381.4	184.9	184.9	203.9	289.8	336.0	314.5	323.6	348.4
80°	788.4	487.9	190.7	121.4	124.7	140.3	211.3	241.9	242.7	265.0	271.6
82.5°	249.3	155.2	85.0	71.0	66.9	80.1	136.2	173.4	161.8	206.4	189.9
85°	57.0	36.3	15.7	15.7	17.3	26.4	52.0	92.5	118.1	142.0	103.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	36.3	53.7	47.9
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°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1261.5	1245.0	1240.0	1226.0	1224.3	1211.1	1206.2	1206.2	1212.0	1212.0	1217.7
5°	1178.9	1158.3	1146.7	1130.2	1126.1	1116.2	1109.6	1110.4	1117.8	1122.8	1132.7
7.5°	1106.3	1092.2	1084.0	1076.6	1074.9	1073.3	1065.8	1065.0	1067.5	1074.9	1082.3
10°	1075.7	1065.8	1068.3	1074.1	1083.2	1088.1	1081.5	1078.2	1075.7	1080.7	1087.3
12.5°	1105.5	1095.5	1100.5	1110.4	1122.8	1127.7	1125.3	1124.4	1126.9	1145.9	1159.9
15°	1170.7	1151.7	1145.1	1149.2	1159.1	1164.1	1161.6	1164.9	1180.6	1230.1	1265.6
17.5°	1251.6	1205.4	1178.9	1171.5	1175.6	1179.8	1179.8	1188.0	1215.3	1287.9	1332.5
20°	1295.3	1235.1	1190.5	1172.3	1174.0	1178.1	1178.1	1189.7	1220.2	1297.8	1326.7
22.5°	1283.8	1228.5	1174.0	1154.2	1155.0	1158.3	1158.3	1168.2	1195.4	1264.0	1277.2
25°	1238.4	1189.7	1136.0	1118.7	1120.3	1126.1	1124.4	1130.2	1150.9	1207.0	1214.4
27.5°	1183.9	1141.0	1088.1	1074.9	1082.3	1093.9	1084.0	1084.8	1103.8	1150.9	1151.7
30°	1125.3	1089.8	1042.7	1032.8	1046.8	1052.6	1043.5	1043.5	1062.5	1094.7	1093.9
32.5°	1061.7	1039.4	1005.6	994.8	1010.5	1019.6	1008.0	1009.7	1024.5	1046.0	1037.8
35°	1002.3	990.7	975.0	967.6	977.5	985.7	978.3	981.6	995.7	1001.4	989.9
37.5°	945.3	943.6	945.3	945.3	947.8	950.2	945.3	953.5	965.9	958.5	945.3
40°	895.8	902.4	918.0	913.9	911.4	913.9	910.6	924.7	937.0	923.8	908.1
42.5°	854.5	866.9	890.8	890.8	885.9	887.5	885.9	903.2	912.3	894.1	876.8
45°	819.0	837.1	867.7	871.8	863.6	863.6	866.9	888.3	891.6	866.9	848.7
47.5°	794.2	816.5	851.2	858.6	846.2	845.4	854.5	877.6	877.6	848.7	828.1
50°	776.9	801.6	842.9	852.8	840.4	837.1	852.0	874.3	869.3	834.7	814.0
52.5°	765.3	790.9	842.1	856.1	847.9	844.6	859.4	875.1	862.7	825.6	804.1
55°	757.9	786.0	844.6	856.1	847.0	841.3	856.1	870.2	863.6	820.6	800.0
57.5°	762.0	790.1	841.3	847.0	836.3	826.4	843.7	863.6	861.1	822.3	801.6
60°	755.4	781.0	823.1	824.8	806.6	790.9	816.5	846.2	846.2	816.5	798.3
62.5°	724.9	750.5	787.6	789.3	768.6	751.3	781.0	816.5	815.7	791.7	772.7
65°	674.5	698.4	740.5	744.7	724.0	705.9	736.4	769.4	771.9	750.5	733.9
67.5°	619.2	640.7	672.0	688.5	671.2	652.2	680.3	711.7	710.8	685.2	667.9
70°	553.1	573.0	601.9	615.9	605.2	587.0	612.6	629.1	621.7	609.3	597.7
72.5°	487.9	506.9	534.2	534.2	522.6	505.3	512.7	542.4	551.5	542.4	535.0
75°	419.4	435.9	454.9	459.0	433.4	402.1	436.7	462.3	473.1	468.9	459.8
77.5°	349.2	361.6	389.7	382.2	334.4	317.8	345.9	383.9	391.3	388.8	376.5
80°	269.1	276.6	306.3	291.4	254.3	243.5	255.9	285.7	287.3	279.0	263.4
82.5°	180.8	190.7	210.5	181.6	180.8	170.9	161.0	164.3	179.2	177.5	166.8
85°	92.5	97.4	116.4	109.0	93.3	80.9	76.8	81.7	73.5	66.9	57.8
87.5°	38.8	42.1	57.8	32.2	9.9	0.0	0.0	5.0	7.4	10.7	11.6
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°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1230.9	1240.0	1262.3	1290.4	1317.6	1345.7	1376.2	1395.2	1418.4	1448.1	1448.9
5°	1145.1	1165.7	1197.9	1240.9	1285.4	1336.6	1396.1	1445.6	1505.0	1552.1	1571.1
7.5°	1092.2	1122.0	1162.4	1216.9	1275.5	1339.1	1416.7	1500.1	1597.5	1660.2	1697.4
10°	1097.2	1142.6	1183.1	1229.3	1282.1	1350.7	1450.6	1561.2	1680.9	1763.4	1809.7
12.5°	1185.5	1233.4	1226.0	1223.5	1259.0	1342.4	1477.8	1623.1	1769.2	1851.8	1907.1
15°	1297.0	1315.2	1245.0	1192.1	1213.6	1312.7	1492.7	1678.4	1842.7	1943.4	1997.9
17.5°	1354.0	1317.6	1232.6	1153.3	1147.6	1267.3	1500.1	1734.6	1925.3	2026.0	2083.8
20°	1327.5	1274.7	1202.9	1127.7	1086.5	1205.4	1496.0	1779.1	2000.4	2112.7	2159.7
22.5°	1270.6	1224.3	1168.2	1096.4	1036.9	1137.7	1485.2	1823.7	2067.3	2180.4	2221.6
25°	1208.7	1174.0	1127.7	1065.0	1008.9	1078.2	1477.8	1883.2	2144.0	2252.2	2278.6
27.5°	1146.7	1121.1	1083.2	1034.5	1002.3	1036.9	1480.3	1960.8	2243.1	2345.5	2334.7
30°	1085.6	1063.4	1036.9	1015.5	1001.4	1027.0	1473.7	2043.3	2352.1	2447.0	2383.5
32.5°	1027.9	1007.2	990.7	994.0	1002.3	1031.2	1439.8	2118.4	2452.0	2532.9	2436.3
35°	978.3	956.9	956.9	968.4	999.0	1017.1	1352.3	2177.1	2562.6	2643.5	2511.4
37.5°	932.1	913.1	925.5	944.5	973.4	979.1	1240.0	2234.0	2723.6	2799.6	2627.8
40°	891.6	872.6	894.9	918.9	933.7	931.3	1126.1	2313.3	2913.5	2991.9	2782.2
42.5°	859.4	842.1	861.9	892.5	894.9	897.4	1042.7	2389.2	3133.9	3233.8	3048.1
45°	833.0	820.6	830.5	861.1	861.1	899.1	990.7	2452.8	3465.8	3642.5	3536.0
47.5°	812.4	804.9	809.9	819.8	836.3	928.8	957.7	2501.5	4070.1	4416.9	4309.5
50°	800.8	793.4	800.0	779.4	828.9	943.6	946.9	2538.7	4866.8	5410.0	5277.1
52.5°	790.9	788.4	792.6	744.7	845.4	933.7	938.7	2489.1	5401.0	6387.5	6518.8
55°	787.6	789.3	769.4	719.1	865.2	900.7	913.9	2135.0	5546.3	7230.5	8045.3
57.5°	789.3	784.3	733.9	721.6	866.0	834.7	949.4	1523.2	5334.9	7597.0	9538.8
60°	783.5	758.7	691.0	743.9	828.1	757.1	923.8	993.2	4777.7	7315.5	9625.5
62.5°	757.9	721.6	653.9	756.2	760.4	710.8	838.8	765.3	4034.6	6712.8	8790.0
65°	720.7	672.0	622.5	730.6	691.8	689.4	630.7	613.4	3244.5	5995.4	7997.4
67.5°	659.6	610.9	599.4	672.0	622.5	610.9	506.9	508.6	2589.0	5230.9	7200.7
70°	590.3	541.6	550.7	607.6	554.0	507.7	410.3	423.5	1964.1	4358.3	6126.7
72.5°	544.9	479.7	480.5	535.0	487.1	411.1	337.7	349.2	1246.6	3285.0	4870.9
75°	459.8	422.7	404.5	433.4	413.6	320.3	284.0	281.5	738.9	2354.6	3647.4
77.5°	383.9	355.0	345.9	357.5	308.8	236.9	228.7	224.6	418.6	1508.3	2390.1
80°	278.2	270.8	270.0	275.7	237.8	174.2	174.2	175.0	225.4	819.0	1347.4
82.5°	176.7	193.2	170.9	189.9	161.8	123.8	115.6	131.3	129.6	349.2	568.0
85°	73.5	100.7	94.1	99.9	76.8	67.7	72.7	78.4	75.1	134.6	221.3
87.5°	14.0	16.5	18.2	17.3	17.3	21.5	23.9	28.9	28.9	38.8	66.9
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-SA2D-735-U-SLL-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1480.3	1504.2	1499.3	1510.0	1496.0	1500.9	1472.8	1465.4	1460.5	1462.1
5°	1632.2	1680.9	1690.0	1708.1	1695.7	1695.7	1646.2	1609.1	1595.9	1585.9
7.5°	1786.6	1856.7	1903.0	1907.9	1901.3	1888.1	1816.3	1749.4	1725.5	1704.8
10°	1923.6	2007.8	2059.8	2084.6	2072.2	2051.6	1962.4	1870.8	1841.9	1823.7
12.5°	2028.5	2102.8	2137.4	2153.9	2152.3	2144.9	2072.2	1973.1	1942.6	1914.5
15°	2096.2	2133.3	2120.1	2119.3	2130.8	2160.6	2138.3	2060.7	2025.2	1999.6
17.5°	2139.9	2104.4	2045.8	2018.6	2043.3	2113.5	2164.7	2120.9	2088.7	2060.7
20°	2155.6	2029.3	1944.2	1893.9	1922.8	2024.3	2150.6	2164.7	2137.4	2114.3
22.5°	2137.4	1937.6	1822.1	1762.6	1790.7	1912.1	2109.4	2200.2	2182.0	2159.7
25°	2092.9	1841.9	1703.2	1649.5	1680.1	1803.9	2035.9	2233.2	2234.0	2215.9
27.5°	2037.5	1753.5	1619.8	1569.4	1599.2	1714.7	1964.1	2262.1	2291.0	2284.4
30°	1981.4	1700.7	1580.2	1544.7	1567.0	1669.3	1890.6	2291.8	2349.6	2361.2
32.5°	1955.8	1726.3	1673.5	1689.1	1660.2	1695.7	1864.2	2333.9	2420.6	2439.6
35°	1989.7	1953.3	2087.1	2149.0	2046.6	1912.1	1898.0	2397.5	2520.5	2548.6
37.5°	2153.9	2439.6	2639.4	2857.3	2679.8	2383.5	2065.6	2505.6	2663.3	2707.9
40°	2511.4	2863.9	3224.7	3506.3	3237.9	2839.2	2384.3	2666.6	2859.8	2900.3
42.5°	2848.3	3261.9	3758.9	4123.0	3774.6	3211.5	2727.7	2937.4	3119.1	3141.3
45°	3178.5	3652.4	4405.3	4911.4	4438.3	3565.7	3078.6	3394.8	3531.8	3532.7
47.5°	3565.7	4092.4	5216.0	5936.8	5319.2	3957.8	3408.0	4118.8	4309.5	4216.3
50°	4028.8	4530.0	6050.7	7129.7	6393.3	4440.0	3826.6	5001.4	5261.4	5155.8
52.5°	4648.9	5012.1	6970.4	8293.0	7564.0	4989.0	4433.4	6167.1	6253.0	6055.7
55°	5521.5	5708.1	8151.0	9729.5	8870.9	5665.2	5320.9	7630.0	7389.8	6824.3
57.5°	7508.7	6809.4	9666.8	11368.3	10349.5	6893.6	7266.0	9243.2	8388.8	7435.2
60°	9171.4	8146.9	11069.4	12994.7	11616.8	8247.6	9092.2	9523.9	8351.6	7367.5
62.5°	8610.8	8487.8	11575.5	13173.8	12049.4	8913.8	8752.8	8816.4	7806.7	6917.6
65°	7554.9	7829.8	11123.9	12324.3	11569.7	8316.9	7917.3	8162.5	7183.4	6287.6
67.5°	6931.6	7133.9	10320.6	10964.6	10697.9	7671.3	7267.6	7090.1	6215.8	5454.6
70°	6294.2	6461.8	9192.9	9258.1	9338.2	6598.1	5942.5	5414.2	4633.2	4100.7
72.5°	5438.9	5448.0	7767.1	7389.0	7540.9	5163.2	4783.4	4047.8	3372.5	2889.5
75°	4563.0	4313.7	6148.1	5164.9	5469.5	4016.5	3971.9	3050.5	2543.6	2147.3
77.5°	3479.0	3187.6	4491.2	3396.5	3841.4	2674.9	2986.1	2068.9	1789.9	1429.1
80°	2335.6	2153.9	2481.7	1917.0	2513.1	1843.5	1947.6	1172.3	1016.3	788.4
82.5°	1231.8	1051.8	1533.9	1136.8	1515.8	1013.0	730.6	362.4	308.8	249.3
85°	477.2	552.3	752.1	404.5	587.8	361.6	211.3	90.0	75.1	57.0
87.5°	92.5	142.8	78.4	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)