

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: P636887

Luminaire Tested: GWS-SA4B-760-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636887
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-SA4B-760-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13686.6 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

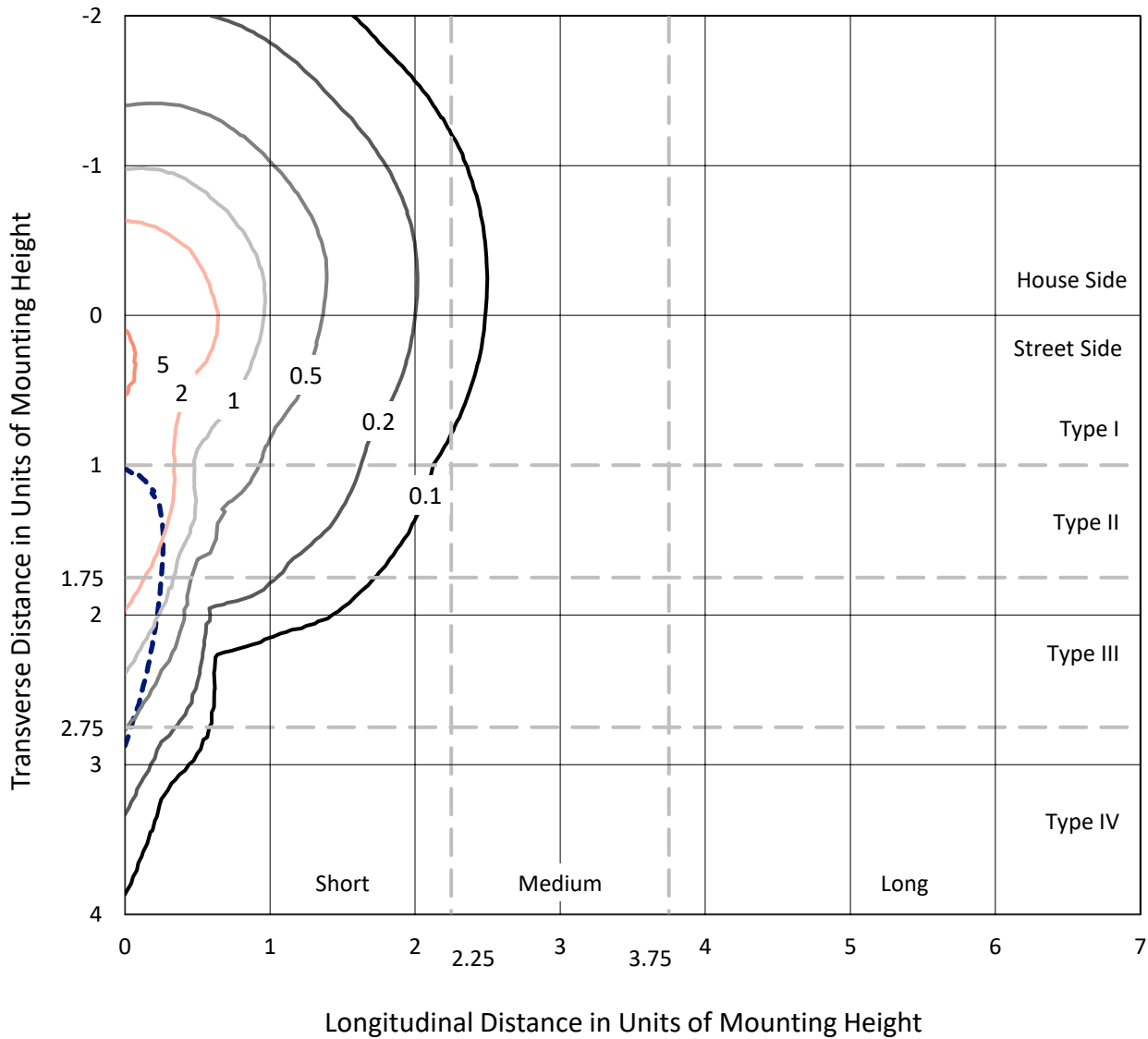
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

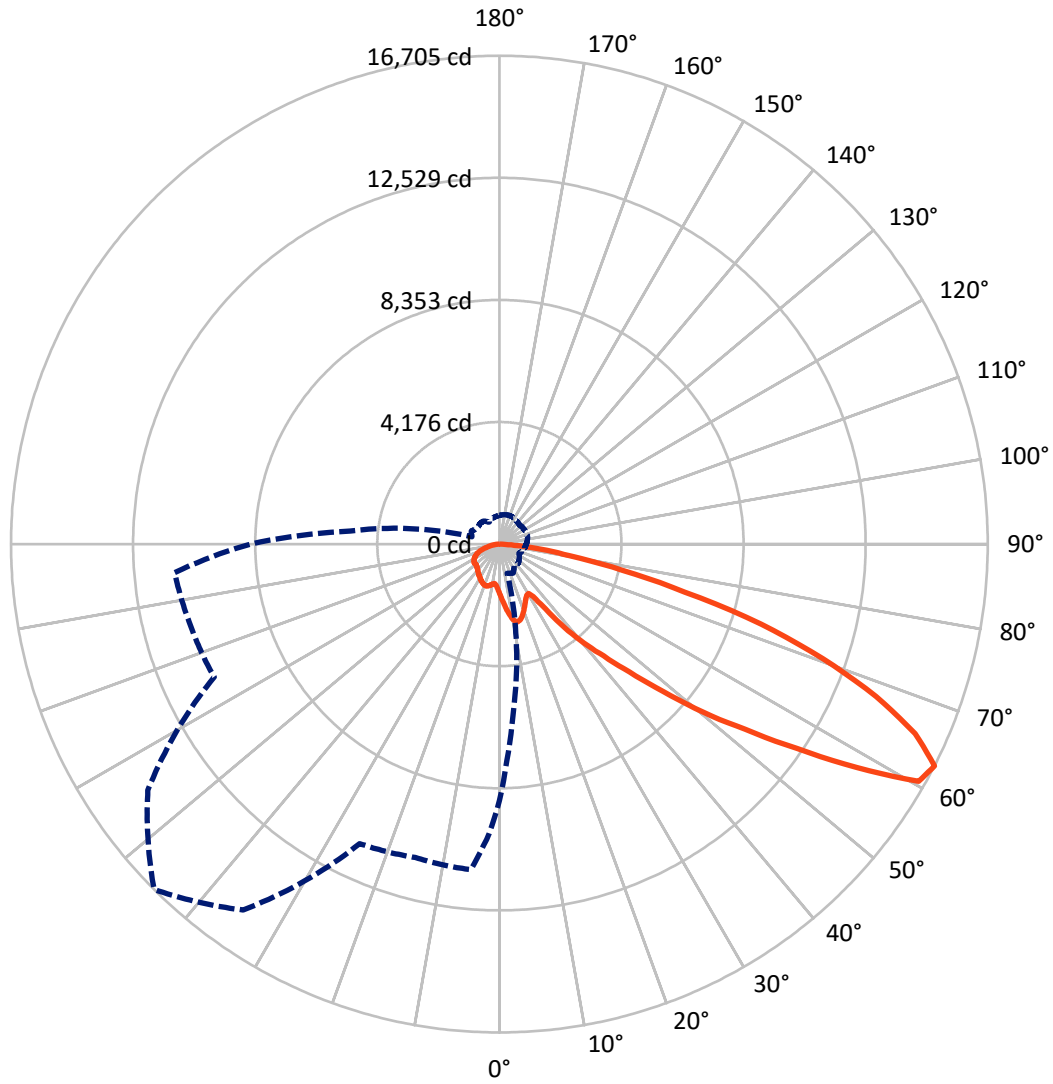
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	3272.5	0.0	3272.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	10414.1	0.0	10414.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	13686.6	0.0	13686.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	1.2
10°-20°	546.4	4.0
20°-30°	860.1	6.3
30°-40°	1178.9	8.6
40°-50°	1839.5	13.4
50°-60°	3171.6	23.2
60°-70°	3675.5	26.9
70°-80°	1940.1	14.2
80°-90°	306.5	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°	13686.6	100.0
0°-180°	13686.6	100.0

Coefficient of Utilization



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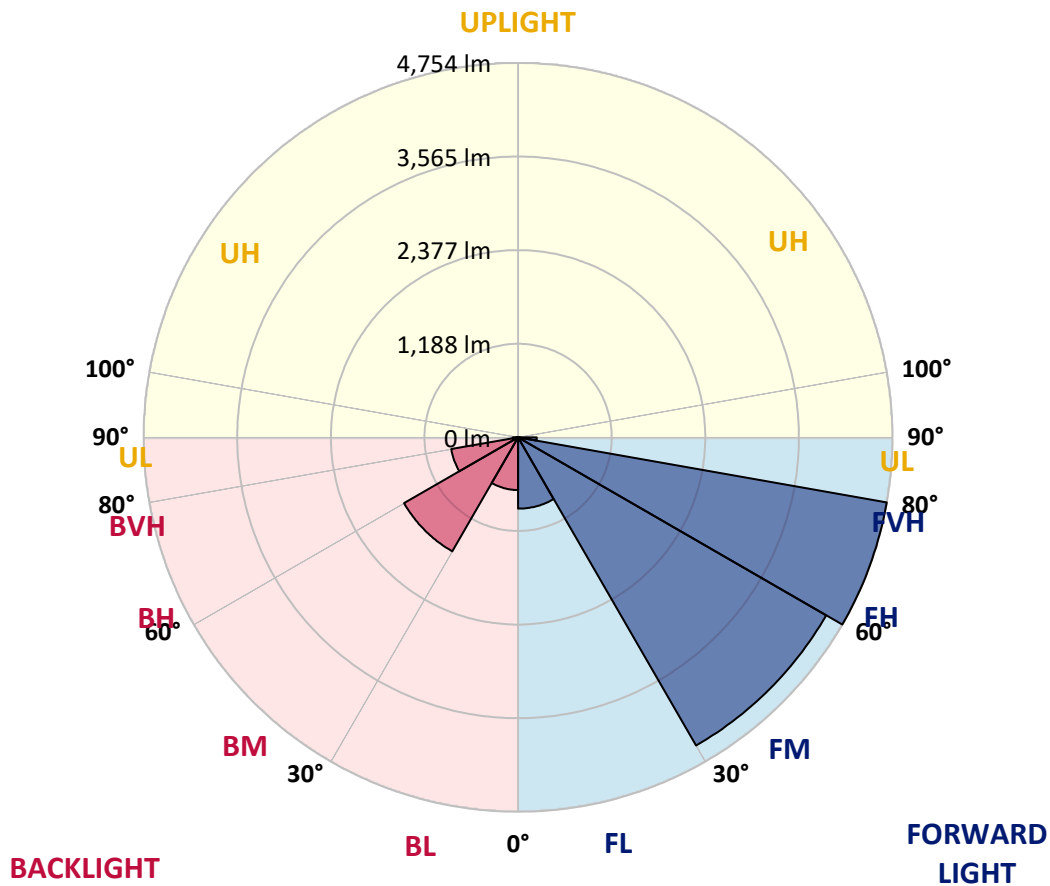
CATALOG NUMBER: GWS-SA4B-760-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	905.2	6.6			
FM (30°-60°)	4518.4	33.0			
FH (60°-80°)	4753.9	34.7			G2/5000
FVH (80°-90°)	236.6	1.7			G3/500
BL (0°-30°)	669.3	4.9	B2/1000		
BM (30°-60°)	1671.6	12.2	B2/2500		
BH (60°-80°)	861.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	69.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4
2.5°	1854.0	1846.7	1836.3	1800.7	1778.7	1753.5	1727.4	1697.0	1662.5	1638.4	1614.3
5°	2011.1	1999.6	1974.4	1889.6	1831.0	1767.2	1713.8	1653.0	1593.4	1552.5	1511.7
7.5°	2161.8	2147.2	2108.4	1978.6	1883.4	1791.2	1710.6	1622.7	1533.7	1473.0	1424.8
10°	2312.6	2282.2	2233.0	2063.4	1937.8	1831.0	1738.9	1631.1	1512.8	1430.1	1378.8
12.5°	2427.7	2399.5	2346.1	2140.9	1992.2	1858.2	1754.6	1655.1	1554.6	1466.7	1414.4
15°	2535.6	2498.9	2438.2	2213.1	2037.3	1857.2	1723.2	1636.3	1621.6	1599.7	1531.6
17.5°	2613.0	2579.5	2516.7	2271.8	2062.4	1824.7	1636.3	1585.0	1651.0	1718.0	1653.0
20°	2681.1	2642.4	2578.5	2312.6	2067.6	1752.5	1530.6	1531.6	1635.2	1727.4	1711.7
22.5°	2738.7	2695.7	2639.2	2358.6	2065.5	1652.0	1438.4	1501.2	1604.9	1677.1	1679.2
25°	2809.9	2774.3	2727.2	2426.7	2065.5	1549.4	1371.4	1464.6	1553.6	1614.3	1612.2
27.5°	2896.8	2872.7	2833.9	2530.3	2084.4	1463.6	1333.7	1417.5	1487.6	1540.0	1538.9
30°	2994.1	2972.1	2942.8	2640.3	2116.8	1399.7	1312.8	1358.9	1410.2	1452.0	1452.0
32.5°	3093.6	3085.2	3053.8	2728.2	2091.7	1379.8	1295.0	1300.2	1327.5	1362.0	1358.9
35°	3231.8	3223.4	3183.6	2796.3	1982.8	1351.5	1266.7	1240.6	1243.7	1265.7	1273.0
37.5°	3433.8	3421.2	3362.6	2875.8	1818.5	1280.4	1220.7	1177.8	1168.3	1177.8	1191.4
40°	3677.7	3658.9	3579.3	2983.6	1629.0	1184.0	1148.4	1112.8	1097.1	1100.3	1116.0
42.5°	3983.4	3943.6	3829.5	3097.8	1441.6	1099.2	1067.8	1045.8	1028.0	1026.0	1056.3
45°	4479.7	4370.8	4189.7	3199.3	1283.5	1054.2	995.6	979.9	965.2	973.6	1009.2
47.5°	5346.5	5145.5	4792.7	3286.2	1187.2	1055.3	938.0	921.3	920.2	937.0	976.8
50°	6537.8	6247.9	5703.5	3344.8	1136.9	1067.8	903.5	876.2	896.1	912.9	950.6
52.5°	7679.0	7236.1	6588.1	3343.8	1114.9	1069.9	912.9	834.4	896.1	900.3	935.9
55°	8653.6	7851.7	6826.8	3000.4	1083.5	1061.5	949.5	801.9	884.6	900.3	928.6
57.5°	9428.3	8243.2	6809.0	2423.6	1178.8	1015.5	971.5	794.6	851.1	902.4	934.9
60°	9342.5	8064.2	6370.3	1487.6	1169.4	933.8	968.4	808.2	794.6	874.2	927.5
62.5°	8771.9	7422.5	5615.5	1032.2	1098.2	886.7	917.1	832.3	742.2	833.3	892.0
65°	7973.1	6594.4	4679.6	791.5	909.8	888.8	830.2	815.5	696.2	768.4	831.2
67.5°	6916.8	5567.4	3694.5	627.1	634.4	769.5	753.8	724.4	653.3	710.8	767.4
70°	5199.9	4063.0	2541.9	504.6	480.5	642.8	677.3	651.2	611.4	628.1	687.8
72.5°	3664.1	2652.8	1392.4	399.9	370.6	494.1	588.4	584.2	540.2	552.8	611.4
75°	2723.0	1877.1	870.0	316.2	301.5	353.8	493.1	505.6	469.0	483.7	528.7
77.5°	1812.2	1215.4	483.7	234.5	234.5	258.6	367.5	426.1	398.9	410.4	441.8
80°	999.8	618.7	241.8	153.9	158.1	178.0	268.0	306.7	307.8	336.1	344.4
82.5°	316.2	196.8	107.8	90.0	84.8	101.5	172.7	219.8	205.2	261.7	240.8
85°	72.2	46.1	19.9	19.9	22.0	33.5	66.0	117.3	149.7	180.1	130.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	46.1	68.0	60.7
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°	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4
2.5°	1599.7	1578.7	1572.4	1554.6	1552.5	1535.8	1529.5	1529.5	1536.8	1536.8	1544.2
5°	1495.0	1468.8	1454.1	1433.2	1428.0	1415.4	1407.0	1408.1	1417.5	1423.8	1436.3
7.5°	1402.8	1385.0	1374.6	1365.1	1363.1	1361.0	1351.5	1350.5	1353.6	1363.1	1372.5
10°	1364.1	1351.5	1354.7	1362.0	1373.5	1379.8	1371.4	1367.2	1364.1	1370.4	1378.8
12.5°	1401.8	1389.2	1395.5	1408.1	1423.8	1430.1	1426.9	1425.9	1429.0	1453.1	1470.9
15°	1484.5	1460.4	1452.0	1457.3	1469.8	1476.1	1473.0	1477.2	1497.1	1559.9	1604.9
17.5°	1587.1	1528.5	1495.0	1485.5	1490.8	1496.0	1496.0	1506.5	1541.0	1633.2	1689.7
20°	1642.6	1566.2	1509.6	1486.6	1488.7	1493.9	1493.9	1508.6	1547.3	1645.7	1682.4
22.5°	1627.9	1557.8	1488.7	1463.6	1464.6	1468.8	1468.8	1481.4	1515.9	1602.8	1619.5
25°	1570.3	1508.6	1440.5	1418.5	1420.6	1428.0	1425.9	1433.2	1459.4	1530.6	1540.0
27.5°	1501.2	1446.8	1379.8	1363.1	1372.5	1387.1	1374.6	1375.6	1399.7	1459.4	1460.4
30°	1426.9	1381.9	1322.2	1309.7	1327.5	1334.8	1323.3	1323.3	1347.4	1388.2	1387.1
32.5°	1346.3	1318.0	1275.1	1261.5	1281.4	1292.9	1278.3	1280.4	1299.2	1326.4	1315.9
35°	1270.9	1256.3	1236.4	1227.0	1239.5	1250.0	1240.6	1244.8	1262.6	1269.9	1255.2
37.5°	1198.7	1196.6	1198.7	1198.7	1201.8	1205.0	1198.7	1209.2	1224.9	1215.4	1198.7
40°	1135.9	1144.3	1164.1	1158.9	1155.8	1158.9	1154.7	1172.5	1188.2	1171.5	1151.6
42.5°	1083.5	1099.2	1129.6	1129.6	1123.3	1125.4	1123.3	1145.3	1156.8	1133.8	1111.8
45°	1038.5	1061.5	1100.3	1105.5	1095.1	1095.1	1099.2	1126.5	1130.6	1099.2	1076.2
47.5°	1007.1	1035.4	1079.3	1088.8	1073.1	1072.0	1083.5	1112.8	1112.8	1076.2	1050.0
50°	985.1	1016.5	1068.9	1081.4	1065.7	1061.5	1080.4	1108.7	1102.4	1058.4	1032.2
52.5°	970.5	1002.9	1067.8	1085.6	1075.2	1071.0	1089.8	1109.7	1094.0	1046.9	1019.7
55°	961.0	996.6	1071.0	1085.6	1074.1	1066.8	1085.6	1103.4	1095.1	1040.6	1014.4
57.5°	966.3	1001.9	1066.8	1074.1	1060.5	1047.9	1069.9	1095.1	1091.9	1042.7	1016.5
60°	957.9	990.4	1043.8	1045.8	1022.8	1002.9	1035.4	1073.1	1073.1	1035.4	1012.3
62.5°	919.2	951.6	998.7	1000.8	974.7	952.7	990.4	1035.4	1034.3	1004.0	979.9
65°	855.3	885.7	939.1	944.3	918.1	895.1	933.8	975.7	978.8	951.6	930.7
67.5°	785.2	812.4	852.2	873.1	851.1	827.0	862.6	902.4	901.4	868.9	846.9
70°	701.4	726.5	763.2	781.0	767.4	744.3	776.8	797.7	788.3	772.6	758.0
72.5°	618.7	642.8	677.3	677.3	662.7	640.7	650.1	687.8	699.3	687.8	678.4
75°	531.8	552.8	576.8	582.1	549.6	509.8	553.8	586.3	599.9	594.6	583.1
77.5°	442.8	458.5	494.1	484.7	424.0	403.1	438.6	486.8	496.2	493.1	477.4
80°	341.3	350.7	388.4	369.6	322.4	308.8	324.5	362.2	364.3	353.8	334.0
82.5°	229.3	241.8	267.0	230.3	229.3	216.7	204.1	208.3	227.2	225.1	211.5
85°	117.3	123.5	147.6	138.2	118.3	102.6	97.4	103.6	93.2	84.8	73.3
87.5°	49.2	53.4	73.3	40.8	12.6	0.0	0.0	6.3	9.4	13.6	14.7
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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CATALOG NUMBER: GWS-SA4B-760-U-SLL-W

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4
2.5°	1560.9	1572.4	1600.7	1636.3	1670.8	1706.4	1745.2	1769.2	1798.6	1836.3	1837.3
5°	1452.0	1478.2	1519.0	1573.5	1630.0	1694.9	1770.3	1833.1	1908.5	1968.2	1992.2
7.5°	1385.0	1422.7	1474.0	1543.1	1617.4	1698.1	1796.5	1902.2	2025.7	2105.3	2152.4
10°	1391.3	1448.9	1500.2	1558.8	1625.8	1712.7	1839.4	1979.7	2131.5	2236.2	2294.8
12.5°	1503.3	1564.1	1554.6	1551.5	1596.5	1702.2	1873.9	2058.2	2243.5	2348.2	2418.3
15°	1644.7	1667.7	1578.7	1511.7	1538.9	1664.6	1892.8	2128.3	2336.7	2464.4	2533.5
17.5°	1716.9	1670.8	1563.0	1462.5	1455.2	1607.0	1902.2	2199.5	2441.4	2569.1	2642.4
20°	1683.4	1616.4	1525.3	1430.1	1377.7	1528.5	1897.0	2256.1	2536.6	2679.0	2738.7
22.5°	1611.2	1552.5	1481.4	1390.3	1314.9	1442.6	1883.4	2312.6	2621.4	2764.8	2817.2
25°	1532.7	1488.7	1430.1	1350.5	1279.3	1367.2	1873.9	2388.0	2718.8	2855.9	2889.4
27.5°	1454.1	1421.7	1373.5	1311.8	1270.9	1314.9	1877.1	2486.4	2844.4	2974.2	2960.6
30°	1376.7	1348.4	1314.9	1287.7	1269.9	1302.3	1868.7	2591.1	2982.6	3103.0	3022.4
32.5°	1303.4	1277.2	1256.3	1260.5	1270.9	1307.6	1825.8	2686.3	3109.3	3211.9	3089.4
35°	1240.6	1213.3	1213.3	1228.0	1266.7	1289.8	1714.8	2760.7	3249.6	3352.2	3184.6
37.5°	1181.9	1157.9	1173.6	1197.6	1234.3	1241.6	1572.4	2832.9	3453.7	3550.0	3332.3
40°	1130.6	1106.6	1134.8	1165.2	1184.0	1180.9	1428.0	2933.4	3694.5	3793.9	3528.0
42.5°	1089.8	1067.8	1093.0	1131.7	1134.8	1138.0	1322.2	3029.7	3974.0	4100.7	3865.1
45°	1056.3	1040.6	1053.2	1091.9	1091.9	1140.1	1256.3	3110.3	4394.9	4618.9	4483.8
47.5°	1030.1	1020.7	1027.0	1039.6	1060.5	1177.8	1214.4	3172.1	5161.2	5600.9	5464.8
50°	1015.5	1006.1	1014.4	988.3	1051.1	1196.6	1200.8	3219.2	6171.4	6860.3	6691.7
52.5°	1002.9	999.8	1005.0	944.3	1072.0	1184.0	1190.3	3156.4	6848.8	8099.8	8266.3
55°	998.7	1000.8	975.7	911.8	1097.1	1142.2	1158.9	2707.3	7033.0	9168.7	10202.0
57.5°	1000.8	994.5	930.7	915.0	1098.2	1058.4	1203.9	1931.5	6765.0	9633.5	12095.8
60°	993.5	962.1	876.2	943.3	1050.0	960.0	1171.5	1259.4	6058.4	9276.5	12205.7
62.5°	961.0	915.0	829.1	959.0	964.2	901.4	1063.6	970.5	5116.2	8512.3	11146.3
65°	913.9	852.2	789.4	926.5	877.3	874.2	799.8	777.8	4114.3	7602.5	10141.3
67.5°	836.5	774.7	760.0	852.2	789.4	774.7	642.8	644.9	3283.1	6633.1	9131.0
70°	748.5	686.8	698.3	770.5	702.5	643.8	520.3	537.1	2490.6	5526.5	7769.0
72.5°	690.9	608.2	609.3	678.4	617.7	521.4	428.2	442.8	1580.8	4165.6	6176.7
75°	583.1	536.0	513.0	549.6	524.5	406.2	360.1	357.0	937.0	2985.7	4625.2
77.5°	486.8	450.2	438.6	453.3	391.5	300.5	290.0	284.8	530.8	1912.7	3030.8
80°	352.8	343.4	342.3	349.7	301.5	220.9	220.9	221.9	285.8	1038.5	1708.5
82.5°	224.0	245.0	216.7	240.8	205.2	157.0	146.6	166.5	164.4	442.8	720.3
85°	93.2	127.7	119.3	126.7	97.4	85.8	92.1	99.5	95.3	170.6	280.6
87.5°	17.8	20.9	23.0	22.0	22.0	27.2	30.4	36.6	36.6	49.2	84.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4	1706.4
2.5°	1877.1	1907.4	1901.2	1914.8	1897.0	1903.3	1867.7	1858.2	1852.0	1854.0
5°	2069.7	2131.5	2143.0	2166.0	2150.3	2150.3	2087.5	2040.4	2023.6	2011.1
7.5°	2265.5	2354.5	2413.1	2419.4	2411.0	2394.2	2303.2	2218.4	2188.0	2161.8
10°	2439.3	2546.0	2612.0	2643.4	2627.7	2601.5	2488.5	2372.3	2335.6	2312.6
12.5°	2572.2	2666.4	2710.4	2731.3	2729.3	2719.8	2627.7	2502.1	2463.3	2427.7
15°	2658.1	2705.2	2688.4	2687.4	2702.0	2739.7	2711.5	2613.0	2568.0	2535.6
17.5°	2713.5	2668.5	2594.2	2559.7	2591.1	2680.0	2745.0	2689.5	2648.6	2613.0
20°	2733.4	2573.3	2465.4	2401.6	2438.2	2567.0	2727.2	2745.0	2710.4	2681.1
22.5°	2710.4	2457.1	2310.5	2235.1	2270.7	2424.6	2674.8	2790.0	2766.9	2738.7
25°	2653.9	2335.6	2159.7	2091.7	2130.4	2287.5	2581.6	2831.8	2832.9	2809.9
27.5°	2583.7	2223.6	2054.0	1990.1	2027.8	2174.4	2490.6	2868.5	2905.1	2896.8
30°	2512.5	2156.6	2003.8	1958.7	1987.0	2116.8	2397.4	2906.2	2979.5	2994.1
32.5°	2480.1	2189.1	2122.1	2141.9	2105.3	2150.3	2363.9	2959.6	3069.5	3093.6
35°	2523.0	2476.9	2646.5	2725.1	2595.2	2424.6	2406.8	3040.2	3196.2	3231.8
37.5°	2731.3	3093.6	3346.9	3623.3	3398.2	3022.4	2619.3	3177.3	3377.3	3433.8
40°	3184.6	3631.7	4089.2	4446.2	4105.9	3600.3	3023.4	3381.5	3626.4	3677.7
42.5°	3611.8	4136.3	4766.5	5228.2	4786.4	4072.4	3458.9	3724.8	3955.2	3983.4
45°	4030.5	4631.5	5586.2	6228.0	5628.1	4521.5	3903.9	4304.8	4478.6	4479.7
47.5°	4521.5	5189.4	6614.3	7528.2	6745.1	5018.8	4321.6	5222.9	5464.8	5346.5
50°	5108.8	5744.3	7672.7	9041.0	8107.1	5630.2	4852.3	6342.1	6671.8	6537.8
52.5°	5895.1	6355.7	8838.9	10516.0	9591.6	6326.4	5621.8	7820.3	7929.2	7679.0
55°	7001.6	7238.2	10336.0	12337.6	11248.9	7183.8	6747.2	9675.4	9370.7	8653.6
57.5°	9521.5	8634.8	12258.1	14415.7	13123.9	8741.6	9213.7	11721.0	10637.5	9428.3
60°	11629.9	10330.7	14036.7	16478.1	14730.8	10458.5	11529.4	12077.0	10590.4	9342.5
62.5°	10919.1	10763.1	14678.5	16705.3	15279.4	11303.3	11099.2	11179.8	9899.4	8771.9
65°	9580.1	9928.7	14105.8	15628.0	14671.2	10546.4	10039.7	10350.6	9109.0	7973.1
67.5°	8789.7	9046.2	13087.2	13903.8	13565.6	9727.7	9215.8	8990.7	7882.1	6916.8
70°	7981.5	8194.0	11657.2	11739.9	11841.4	8366.8	7535.5	6865.5	5875.2	5199.9
72.5°	6896.9	6908.4	9849.2	9369.7	9562.3	6547.3	6065.7	5132.9	4276.6	3664.1
75°	5786.2	5470.0	7796.2	6549.4	6935.7	5093.1	5036.6	3868.3	3225.5	2723.0
77.5°	4411.6	4042.1	5695.1	4306.9	4871.2	3391.9	3786.6	2623.5	2269.7	1812.2
80°	2961.7	2731.3	3147.0	2430.9	3186.7	2337.7	2469.6	1486.6	1288.7	999.8
82.5°	1562.0	1333.7	1945.1	1441.6	1922.1	1284.5	926.5	459.6	391.5	316.2
85°	605.1	700.4	953.7	513.0	745.4	458.5	268.0	114.1	95.3	72.2
87.5°	117.3	181.1	99.5	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)