

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: P631825

Luminaire Tested: GWS-SA2B-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631825
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-SA2B-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5371.8 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

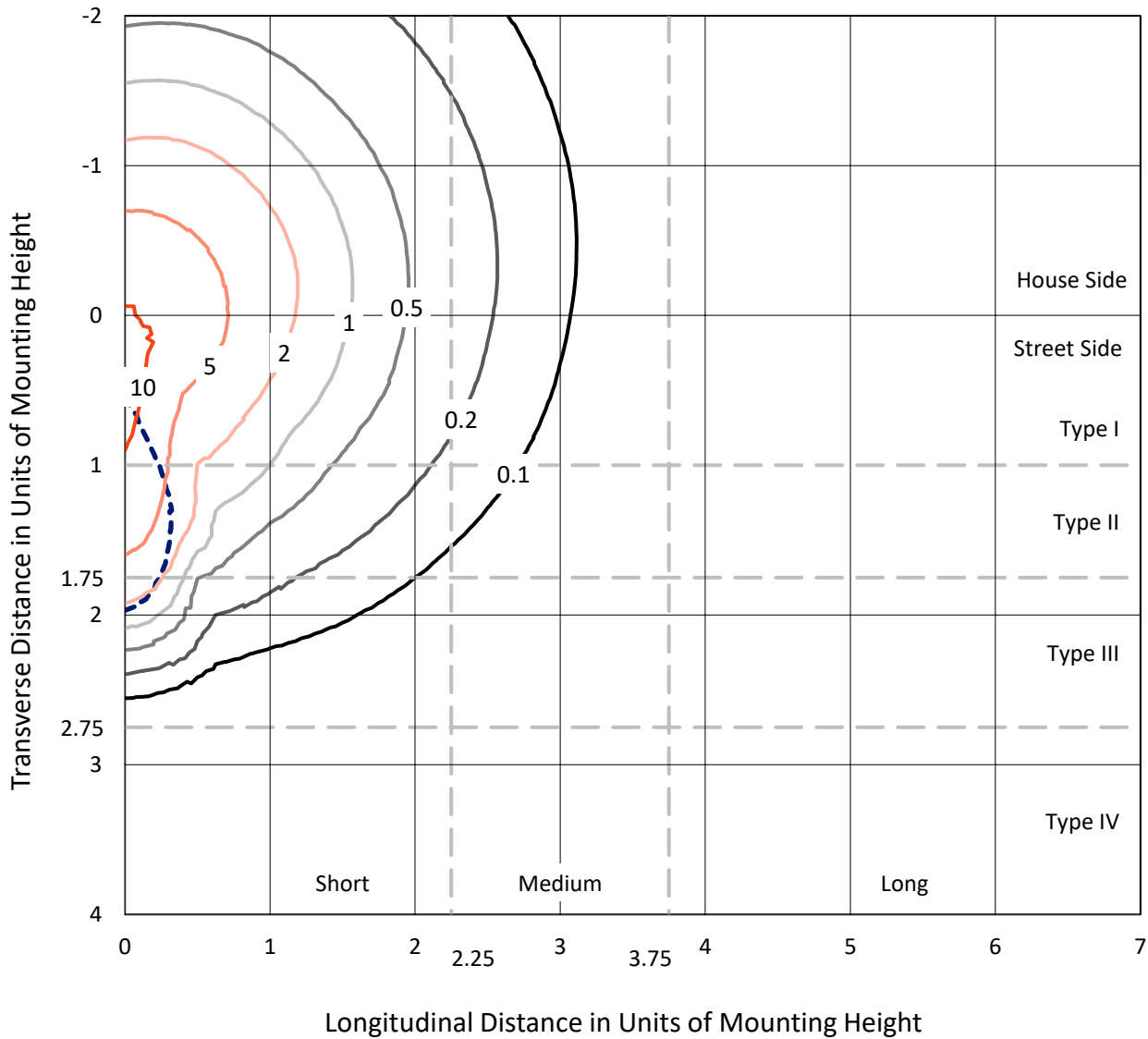
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

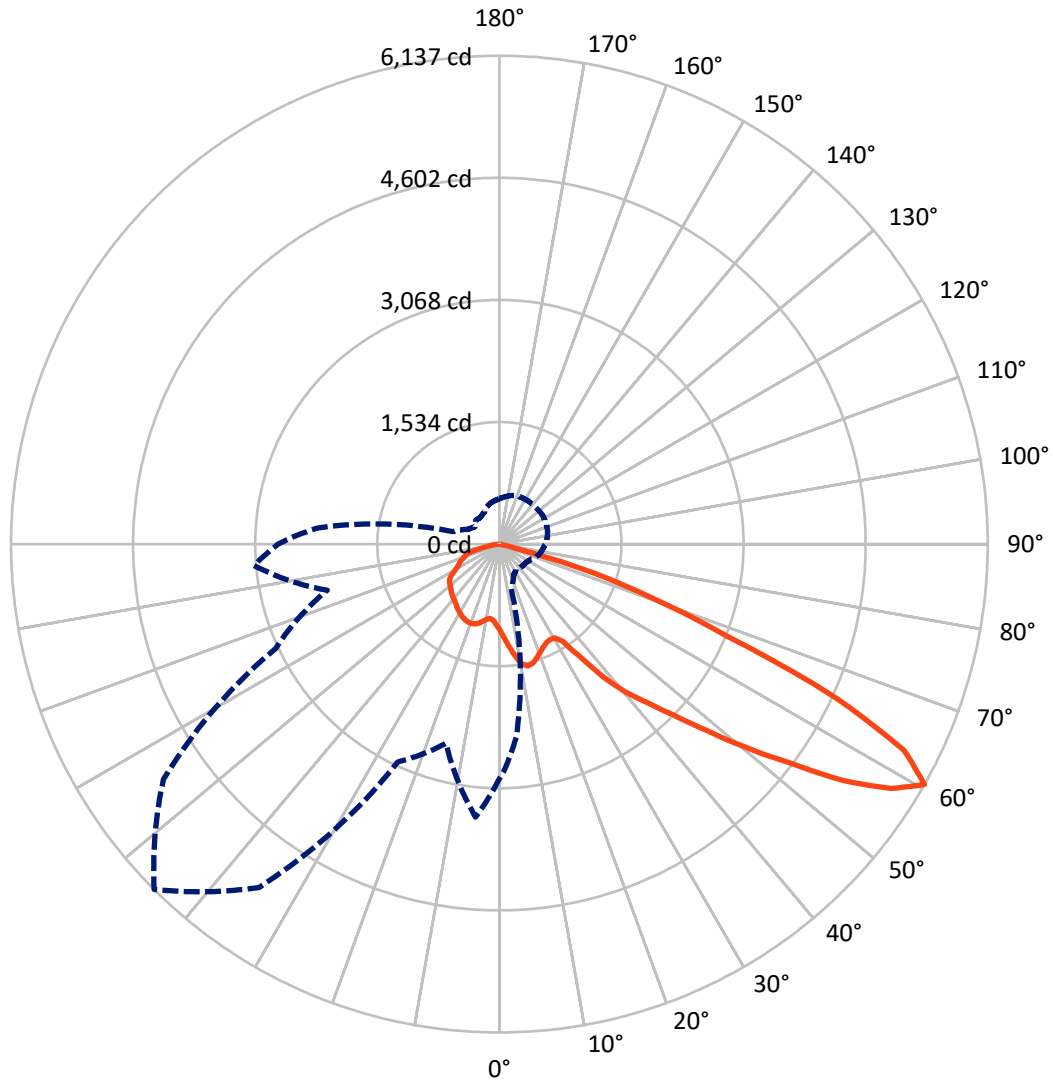
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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
House Side	Lumens	1837.6	0.0	1837.6
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	3534.2	0.0	3534.2
	% Fixture	65.8	0.0	65.8
Total	Lumens	5371.8	0.0	5371.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	2.0
10°-20°	339.5	6.3
20°-30°	552.9	10.3
30°-40°	776.8	14.5
40°-50°	1062.9	19.8
50°-60°	1363.7	25.4
60°-70°	918.2	17.1
70°-80°	229.6	4.3
80°-90°	22.4	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°	5371.8	100.0
0°-180°	5371.8	100.0

Coefficient of Utilization



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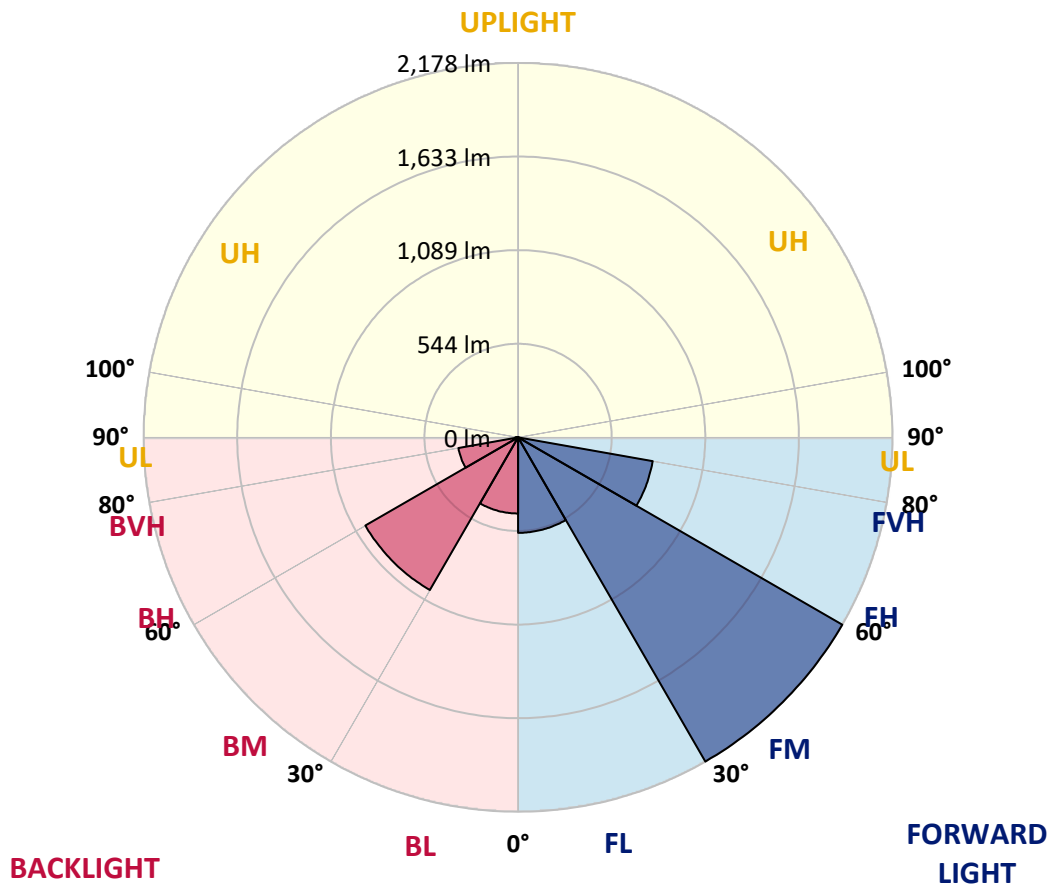
CATALOG NUMBER: GWS-SA2B-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.3	10.3			
FM (30°-60°)	2177.8	40.5			
FH (60°-80°)	795.2	14.8			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	443.0	8.2	B1/500		
BM (30°-60°)	1025.6	19.1	B2/2500		
BH (60°-80°)	352.5	6.6	B1/500		G1/500
BVH (80°-90°)	16.6	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°	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4
2.5°	1146.3	1143.8	1141.3	1122.0	1117.1	1103.2	1093.3	1081.0	1063.2	1053.3	1044.8
5°	1218.0	1214.0	1200.7	1161.1	1135.4	1107.2	1083.9	1058.2	1031.0	1013.2	999.3
7.5°	1285.8	1284.8	1262.0	1196.7	1155.2	1114.6	1082.9	1045.3	1006.3	979.5	961.7
10°	1348.6	1341.2	1314.0	1228.9	1174.5	1128.0	1093.8	1052.3	1006.8	970.6	946.9
12.5°	1404.0	1394.6	1357.0	1258.6	1191.3	1133.9	1096.8	1062.7	1032.5	1002.3	975.1
15°	1449.5	1438.1	1400.1	1286.3	1206.1	1130.4	1078.5	1051.8	1062.2	1075.5	1045.3
17.5°	1492.1	1480.2	1433.7	1306.6	1210.6	1109.2	1033.5	1022.1	1074.5	1135.4	1121.5
20°	1527.7	1514.3	1460.4	1316.4	1202.7	1068.6	975.1	994.9	1064.1	1136.9	1159.1
22.5°	1566.3	1555.4	1490.6	1330.8	1192.8	1012.7	926.1	974.6	1046.3	1110.1	1143.8
25°	1628.1	1614.8	1537.6	1356.0	1187.8	960.2	891.0	954.8	1021.6	1079.5	1105.7
27.5°	1717.7	1692.9	1601.9	1400.1	1193.3	910.8	868.7	930.6	992.9	1042.4	1063.6
30°	1815.1	1785.4	1673.1	1445.6	1201.2	880.6	856.9	902.9	948.9	998.3	1021.6
32.5°	1930.4	1904.2	1749.3	1479.7	1184.4	866.7	847.9	872.7	909.3	948.9	968.2
35°	2067.9	2020.9	1832.4	1507.4	1129.9	846.5	840.0	839.5	858.8	897.4	919.2
37.5°	2215.8	2165.4	1934.8	1537.1	1045.3	814.3	821.2	800.5	818.3	848.9	873.7
40°	2337.1	2284.1	2038.2	1577.7	939.5	763.8	779.7	757.4	768.3	800.0	827.7
42.5°	2455.8	2399.4	2134.7	1623.7	837.1	714.4	722.3	713.9	717.3	750.5	789.1
45°	2611.6	2548.3	2253.4	1656.3	745.0	675.3	667.9	653.5	671.8	714.9	755.9
47.5°	2871.8	2796.2	2447.9	1677.6	678.3	653.0	618.9	610.5	633.2	681.2	723.8
50°	3176.1	3110.8	2758.6	1676.6	628.3	634.2	571.4	564.0	601.6	650.1	695.1
52.5°	3425.4	3359.1	3024.2	1627.1	587.2	594.2	543.7	522.9	574.4	619.4	664.4
55°	3626.8	3552.1	3146.4	1420.3	535.3	530.3	513.5	475.4	540.2	588.7	630.8
57.5°	3518.4	3429.4	2998.5	1080.0	481.9	450.7	461.6	433.4	493.7	554.6	595.1
60°	2950.0	2869.9	2436.0	574.9	424.0	376.5	399.2	403.7	442.8	513.5	555.1
62.5°	2026.4	1968.0	1650.9	348.8	334.4	302.3	337.9	370.0	399.2	459.1	495.2
65°	991.4	974.1	825.7	223.6	234.0	244.4	280.0	319.1	362.1	414.6	452.7
67.5°	273.1	275.1	250.3	174.6	184.5	213.2	241.4	272.6	315.6	364.1	402.7
70°	120.2	122.2	126.2	134.6	153.4	179.6	208.8	240.9	280.5	321.1	358.2
72.5°	83.6	85.6	91.5	102.4	119.2	144.0	171.7	202.3	243.4	277.5	308.2
75°	51.5	52.9	58.4	67.8	79.2	98.0	125.2	153.4	189.5	220.6	247.9
77.5°	27.2	26.2	29.7	36.1	46.0	55.9	74.2	92.0	117.7	143.0	165.7
80°	14.8	14.3	16.3	19.8	22.8	30.7	43.0	54.9	69.8	84.1	96.5
82.5°	6.4	5.9	6.4	8.4	10.4	14.8	21.8	30.2	38.6	48.5	56.4
85°	0.0	0.0	0.0	0.5	2.5	4.0	7.4	10.9	15.8	21.8	26.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.5
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°	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4
2.5°	1039.9	1027.5	1026.5	1016.6	1017.6	1018.1	1008.2	1004.3	1007.7	1011.7	1009.7
5°	994.4	981.5	976.1	966.7	965.7	961.2	957.3	952.3	955.8	959.3	961.2
7.5°	954.8	946.4	942.9	940.5	941.5	939.5	931.6	927.1	926.6	928.1	930.1
10°	941.9	935.0	939.5	946.4	951.3	954.8	946.4	939.0	932.1	929.1	929.1
12.5°	969.6	960.7	969.6	977.1	987.0	989.4	980.0	972.1	969.6	972.6	978.6
15°	1031.0	1010.2	1009.7	1014.2	1022.1	1026.0	1017.1	1013.2	1013.2	1032.0	1046.8
17.5°	1092.3	1058.2	1043.9	1041.4	1046.3	1047.8	1040.4	1036.9	1045.8	1082.4	1110.1
20°	1135.4	1093.8	1062.7	1056.7	1058.2	1058.7	1052.8	1050.3	1063.2	1107.7	1130.9
22.5°	1130.9	1100.3	1062.2	1054.7	1057.2	1056.2	1050.8	1049.8	1060.2	1098.8	1109.7
25°	1100.3	1076.5	1044.4	1039.4	1043.4	1042.9	1037.4	1035.0	1039.4	1065.1	1066.1
27.5°	1065.1	1044.4	1016.6	1015.2	1021.6	1025.1	1015.7	1008.2	1006.8	1024.1	1020.1
30°	1023.1	1007.7	985.5	986.5	998.3	1000.3	988.9	978.1	975.1	984.5	979.0
32.5°	973.1	968.2	956.3	958.8	970.1	974.1	962.2	950.9	947.4	950.4	939.0
35°	930.6	928.6	929.6	934.0	943.9	946.9	937.0	928.1	923.1	912.8	897.9
37.5°	886.5	892.0	906.3	914.7	920.2	919.2	913.7	907.3	899.4	880.1	861.8
40°	845.5	859.3	885.1	894.5	896.4	896.9	893.0	887.5	877.6	851.9	831.1
42.5°	813.8	829.1	863.3	877.6	878.6	879.6	875.7	871.2	857.3	823.2	802.9
45°	780.7	801.0	841.0	858.3	857.3	856.9	853.4	851.4	835.1	795.5	773.2
47.5°	752.5	776.2	819.3	834.1	833.6	833.1	830.6	830.6	814.3	771.3	746.0
50°	724.8	752.0	797.0	809.4	810.3	809.4	808.4	809.9	790.6	744.6	719.8
52.5°	694.6	725.3	772.3	783.6	789.6	792.0	792.0	788.6	765.8	717.8	690.6
55°	661.4	690.6	745.0	760.4	765.3	769.8	769.8	762.9	741.6	693.1	663.9
57.5°	620.4	646.1	689.1	704.5	716.4	719.3	719.3	707.9	690.6	644.1	620.4
60°	575.9	598.1	627.3	643.6	652.5	646.6	651.1	648.1	634.2	591.2	571.4
62.5°	516.5	539.2	571.4	588.2	592.2	586.2	592.2	591.7	572.9	534.3	510.6
65°	473.9	496.2	527.9	549.6	556.1	554.6	558.5	552.6	529.3	492.7	470.0
67.5°	423.5	447.2	483.8	508.1	521.4	522.9	528.4	516.0	492.2	452.2	423.5
70°	375.5	395.8	424.0	446.7	465.5	474.9	475.9	458.1	428.4	395.3	374.5
72.5°	325.0	345.8	379.9	404.7	428.4	439.3	439.3	417.5	385.4	348.8	326.5
75°	263.7	283.0	314.1	340.9	368.1	381.9	381.4	362.6	327.0	292.4	269.1
77.5°	178.6	192.9	212.7	233.0	237.0	247.9	253.3	229.5	209.8	191.0	170.2
80°	103.9	112.8	123.7	135.1	137.5	141.0	132.1	123.2	112.8	100.4	91.0
82.5°	60.9	66.8	72.2	81.1	82.6	83.6	75.7	71.7	63.3	55.9	50.0
85°	29.7	31.7	36.6	41.1	39.1	38.1	34.6	30.7	27.2	24.2	21.3
87.5°	5.9	5.9	8.9	8.4	6.9	5.9	3.5	4.5	1.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4
2.5°	1016.2	1024.6	1035.0	1048.8	1064.6	1081.5	1097.8	1110.1	1122.5	1140.8	1137.9
5°	964.2	978.6	994.9	1016.2	1041.9	1071.1	1103.7	1136.4	1171.5	1201.2	1214.0
7.5°	934.0	949.9	969.2	996.9	1030.0	1065.6	1111.6	1164.6	1221.5	1260.5	1284.8
10°	934.0	954.3	979.5	1006.3	1035.4	1072.1	1128.9	1195.2	1268.5	1319.9	1348.1
12.5°	988.0	1008.2	1013.7	1012.7	1029.0	1069.6	1142.8	1227.4	1315.0	1369.4	1404.0
15°	1072.1	1079.0	1037.9	1000.3	1002.8	1051.8	1149.2	1253.1	1355.0	1420.3	1457.9
17.5°	1128.5	1110.1	1036.9	971.1	957.3	1021.6	1149.2	1277.9	1397.6	1471.3	1506.4
20°	1132.9	1087.4	1011.7	942.9	907.3	981.5	1141.3	1296.7	1438.6	1520.3	1557.9
22.5°	1093.8	1048.8	985.0	918.7	866.3	933.0	1128.5	1311.0	1473.8	1566.3	1612.8
25°	1049.3	1011.7	957.8	894.0	838.1	884.1	1116.6	1335.2	1522.7	1628.6	1675.6
27.5°	1005.8	974.1	925.1	873.2	822.2	841.5	1109.2	1370.9	1581.1	1717.2	1757.7
30°	963.2	934.5	890.0	853.4	813.8	813.8	1102.7	1411.9	1658.3	1816.6	1857.2
32.5°	920.2	893.0	856.9	834.1	808.9	802.9	1084.9	1450.5	1737.9	1925.4	1967.0
35°	880.1	852.9	825.2	815.8	806.4	794.5	1040.9	1480.7	1815.6	2052.6	2088.2
37.5°	842.5	816.3	795.5	793.0	794.0	771.8	971.6	1505.9	1912.6	2182.7	2201.5
40°	809.9	780.7	764.3	763.8	768.8	735.2	884.1	1542.0	2023.4	2293.0	2285.1
42.5°	780.7	750.0	730.2	734.7	731.7	698.5	798.5	1575.2	2119.9	2396.4	2380.6
45°	752.0	722.3	694.6	701.0	697.6	675.8	725.8	1599.4	2226.7	2520.6	2522.6
47.5°	724.3	695.1	667.4	659.5	659.0	668.9	669.8	1607.3	2400.9	2720.5	2675.4
50°	698.5	669.4	640.7	613.9	624.3	655.0	628.3	1601.4	2661.6	2941.1	2815.4
52.5°	671.8	644.1	612.5	564.5	591.7	621.9	591.2	1580.1	2820.9	3136.0	3060.8
55°	641.2	614.9	571.9	513.5	546.7	553.1	553.1	1374.3	2888.7	3329.0	3375.5
57.5°	600.1	565.5	497.2	450.2	479.9	455.1	512.5	961.7	2776.9	3268.1	3448.7
60°	553.6	516.5	444.3	410.6	419.5	376.0	436.8	603.1	2301.4	2780.8	3093.5
62.5°	492.2	458.1	398.2	372.0	353.7	306.7	351.7	381.4	1577.7	2065.0	2278.2
65°	451.2	413.6	360.2	325.5	287.9	246.9	233.5	250.3	848.4	1155.7	1299.6
67.5°	402.7	365.6	315.1	271.6	241.4	211.7	188.5	182.6	290.9	384.9	416.6
70°	356.7	321.1	279.0	238.5	208.3	179.1	156.3	140.0	134.6	133.6	131.6
72.5°	309.7	276.5	241.4	203.8	170.7	144.0	123.7	104.9	97.0	94.5	92.0
75°	253.8	227.6	192.4	151.9	125.2	100.4	84.6	72.2	65.3	62.8	59.9
77.5°	163.3	151.4	120.7	98.0	75.7	59.9	51.5	43.5	39.1	38.1	35.6
80°	87.1	81.1	66.8	56.4	45.0	36.6	32.2	27.7	25.2	24.2	23.3
82.5°	48.5	44.0	37.1	32.7	26.2	22.3	19.8	17.8	16.3	15.8	15.3
85°	21.8	18.8	14.8	13.9	12.4	11.4	10.9	9.9	9.4	8.9	8.4
87.5°	1.0	2.0	2.5	2.0	2.0	3.0	3.5	3.5	3.0	3.0	2.5
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-SA2B-740-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4	1083.4
2.5°	1156.2	1171.0	1172.5	1177.4	1171.0	1169.5	1159.1	1153.2	1147.7	1146.3
5°	1246.2	1275.9	1287.8	1296.2	1288.2	1284.3	1261.5	1237.8	1224.4	1218.0
7.5°	1338.7	1383.2	1406.5	1416.9	1417.9	1400.1	1361.0	1316.4	1294.2	1285.8
10°	1421.3	1476.2	1506.9	1526.7	1519.8	1498.0	1444.6	1384.2	1356.0	1348.6
12.5°	1482.7	1535.1	1558.9	1571.7	1571.2	1559.4	1508.9	1443.6	1411.4	1404.0
15°	1522.3	1553.4	1554.9	1557.9	1566.3	1582.1	1555.9	1495.5	1459.9	1449.5
17.5°	1553.4	1541.1	1517.8	1509.9	1528.7	1572.7	1588.5	1539.6	1501.0	1492.1
20°	1573.2	1510.9	1469.8	1454.5	1476.2	1548.0	1608.3	1579.1	1539.1	1527.7
22.5°	1588.5	1482.7	1416.4	1406.0	1428.7	1521.3	1628.6	1626.1	1582.1	1566.3
25°	1612.8	1463.9	1378.8	1371.4	1392.6	1508.4	1655.8	1690.0	1650.9	1628.1
27.5°	1650.9	1461.9	1359.5	1357.0	1386.2	1519.8	1694.9	1783.5	1734.5	1717.7
30°	1703.8	1480.7	1363.9	1368.9	1404.5	1560.8	1755.8	1890.3	1841.3	1815.1
32.5°	1780.0	1531.2	1431.7	1453.0	1479.2	1626.6	1844.8	2006.1	1969.0	1930.4
35°	1880.4	1669.7	1632.1	1722.6	1697.9	1770.6	1952.2	2146.6	2101.6	2067.9
37.5°	2014.5	1953.6	1988.3	2112.9	2053.1	2042.7	2083.3	2274.2	2249.5	2215.8
40°	2202.5	2214.9	2278.7	2442.4	2355.9	2289.1	2244.0	2370.2	2378.6	2337.1
42.5°	2327.2	2384.1	2537.9	2723.9	2604.7	2444.9	2378.6	2492.9	2493.4	2455.8
45°	2373.7	2522.6	2844.1	3058.4	2859.0	2534.0	2452.8	2659.6	2654.7	2611.6
47.5°	2356.8	2639.3	3162.2	3489.7	3185.5	2597.3	2442.4	2897.1	2937.1	2871.8
50°	2321.7	2756.6	3533.8	4018.1	3586.2	2664.6	2426.6	3160.3	3226.6	3176.1
52.5°	2357.3	2887.2	3973.1	4564.3	4088.9	2771.9	2533.5	3498.2	3486.3	3425.4
55°	2470.1	3041.5	4506.9	5250.5	4641.0	2953.5	2808.0	3820.2	3699.5	3626.8
57.5°	2464.7	3151.9	4974.9	5793.2	5121.3	3102.4	2903.5	3854.4	3610.5	3518.4
60°	2237.1	3101.4	5153.0	6136.5	5266.3	3020.3	2589.4	3442.8	3046.5	2950.0
62.5°	1669.7	2752.1	4807.7	5706.6	4856.2	2608.7	1947.2	2471.1	2189.1	2026.4
65°	1068.1	2153.0	4041.9	4623.2	4002.8	1995.2	1159.6	1324.9	1037.9	991.4
67.5°	454.6	1519.8	3142.0	3090.0	2994.5	1292.7	447.7	373.0	278.0	273.1
70°	150.4	1034.0	1936.8	2061.0	1788.4	890.5	147.9	125.2	124.7	120.2
72.5°	98.4	555.1	1090.4	1214.0	1150.7	512.5	89.5	83.6	85.6	83.6
75°	58.9	120.7	183.5	238.5	183.5	86.1	53.9	52.9	53.9	51.5
77.5°	34.6	33.6	32.7	32.7	32.2	29.7	27.2	26.2	26.7	27.2
80°	22.3	21.3	20.3	19.8	17.3	16.3	15.3	14.3	14.3	14.8
82.5°	14.3	13.4	12.4	10.9	8.9	7.4	6.9	5.9	5.9	6.4
85°	7.4	5.9	4.5	3.5	2.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.5	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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