

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: P631829

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT 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: 5399.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

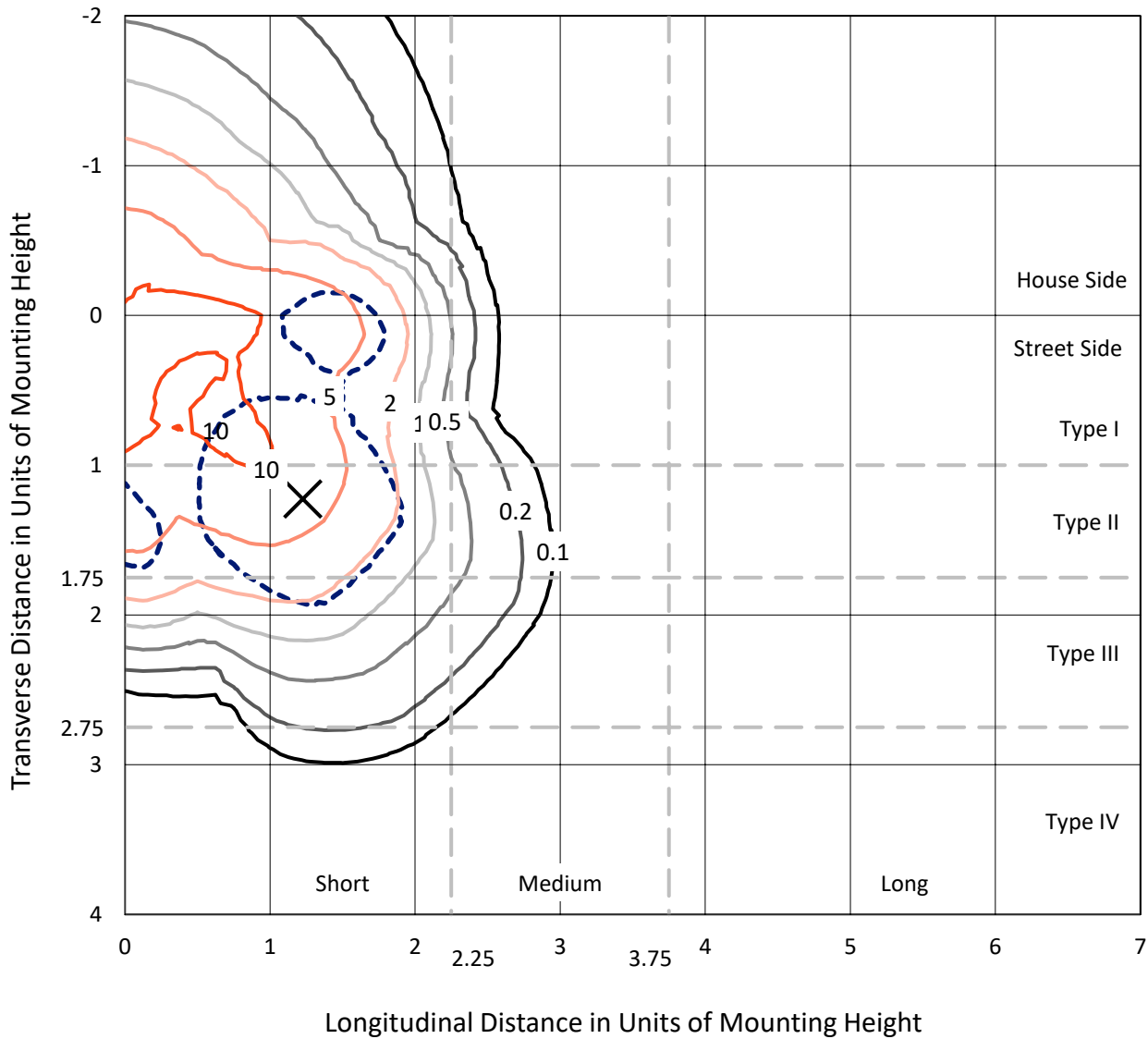
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

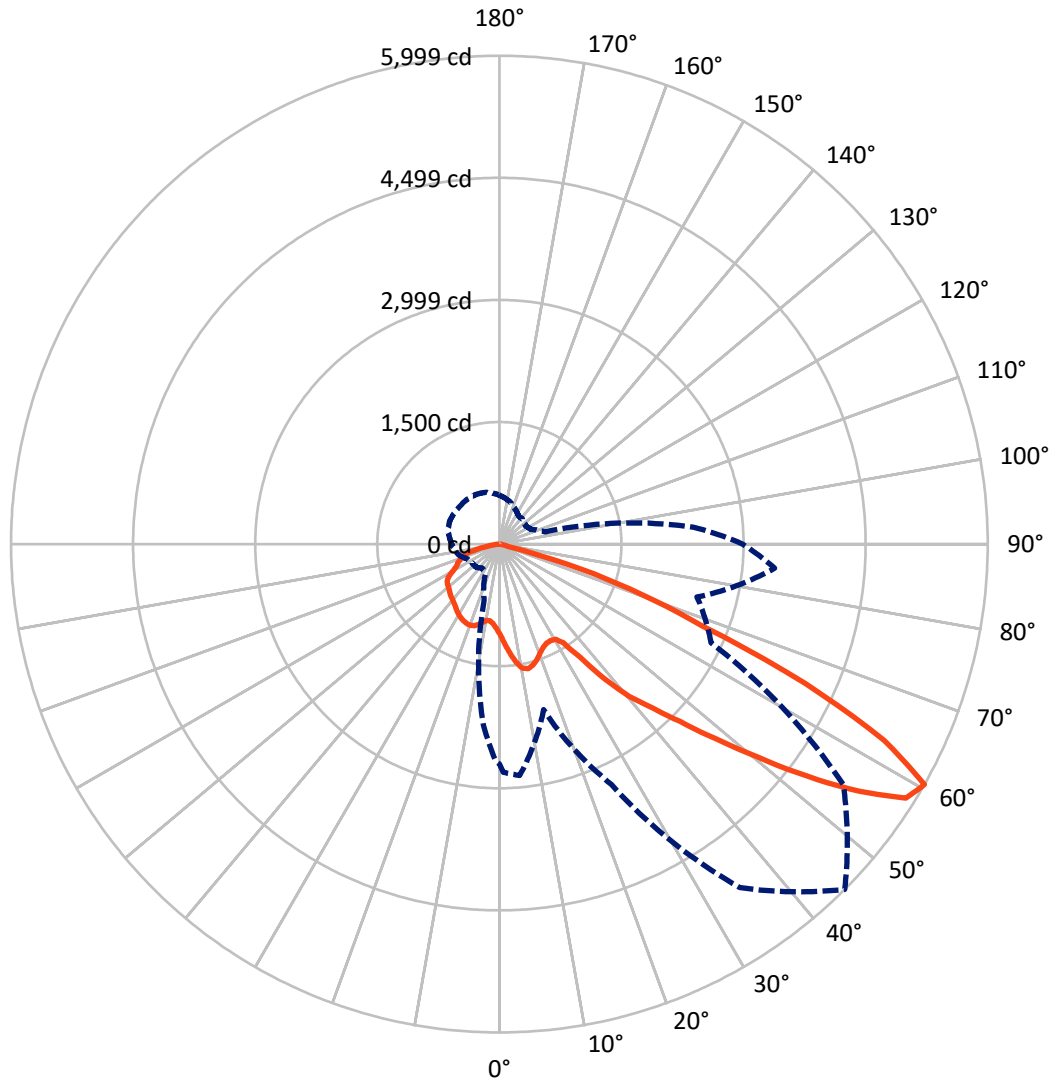
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.7	0.0	1892.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3506.8	0.0	3506.8
	% Fixture	64.9	0.0	64.9
Total	Lumens	5399.5	0.0	5399.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.2	2.0
10°-20°	342.0	6.3
20°-30°	555.5	10.3
30°-40°	783.4	14.5
40°-50°	1082.7	20.1
50°-60°	1393.7	25.8
60°-70°	883.1	16.4
70°-80°	226.6	4.2
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°	5399.5	100.0
0°-180°	5399.5	100.0

Coefficient of Utilization



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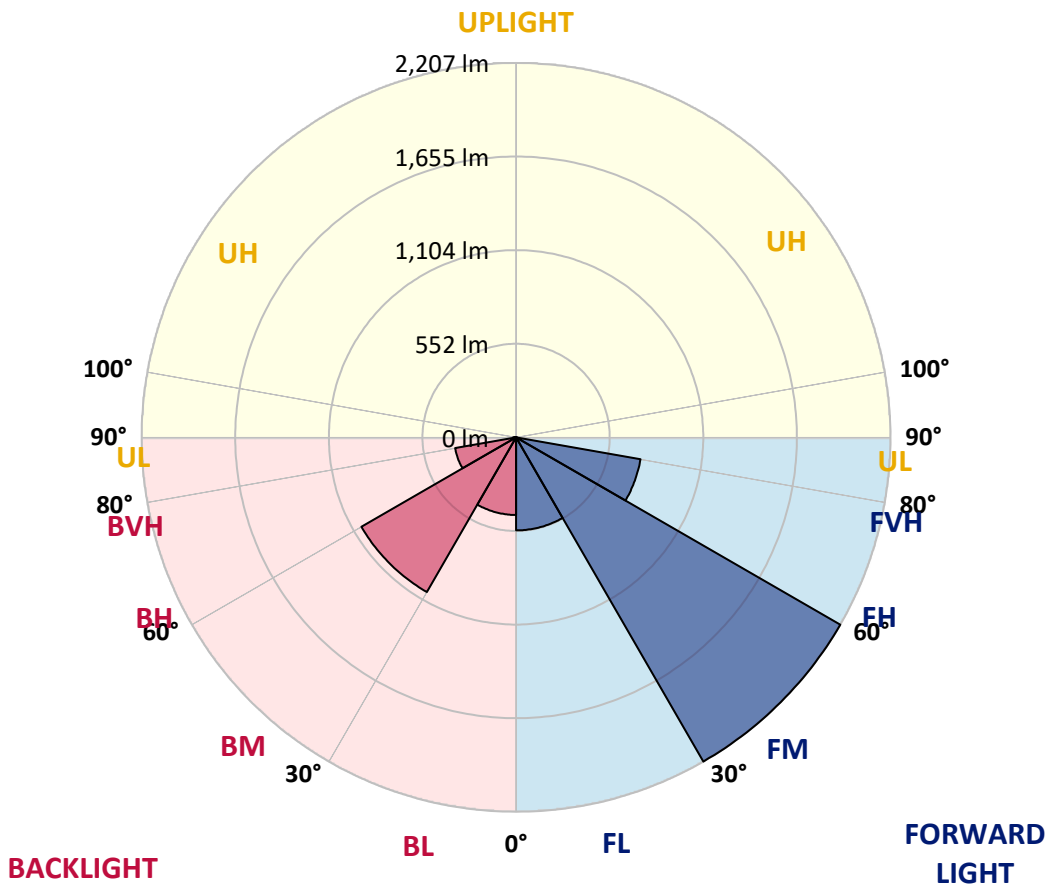
CATALOG NUMBER: GWS-SA2B-740-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.3	10.2			
FM (30°-60°)	2207.0	40.9			
FH (60°-80°)	744.9	13.8			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	457.5	8.5	B1/500		
BM (30°-60°)	1052.9	19.5	B2/2500		
BH (60°-80°)	364.7	6.8	B1/500		G1/500
BVH (80°-90°)	17.7	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°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1160.2	1168.1	1173.0	1182.4	1199.3	1208.7	1219.0	1207.7	1210.6	1209.2	1190.8
5°	1228.9	1238.3	1251.2	1278.9	1310.1	1327.4	1343.7	1341.3	1325.9	1300.2	1281.9
7.5°	1293.3	1304.1	1326.4	1371.4	1417.4	1444.2	1463.9	1451.1	1438.2	1397.7	1351.6
10°	1343.7	1350.2	1380.3	1440.7	1494.1	1524.3	1548.5	1545.6	1527.8	1482.3	1420.4
12.5°	1391.2	1395.7	1428.3	1488.7	1536.7	1550.0	1569.8	1576.3	1570.3	1536.2	1475.3
15°	1442.2	1450.6	1480.8	1526.8	1548.5	1534.7	1541.6	1559.4	1576.3	1576.3	1520.3
17.5°	1489.7	1497.1	1527.8	1547.6	1526.8	1490.2	1492.1	1514.9	1555.0	1597.0	1561.4
20°	1531.7	1538.7	1568.8	1550.0	1484.2	1430.8	1429.3	1457.0	1521.8	1610.4	1605.4
22.5°	1577.7	1587.6	1612.9	1552.0	1444.7	1376.9	1376.4	1405.1	1492.6	1623.7	1655.9
25°	1643.0	1658.4	1671.2	1569.3	1423.4	1341.7	1348.2	1375.4	1483.2	1645.5	1730.6
27.5°	1740.0	1752.4	1751.4	1605.4	1422.4	1327.4	1340.8	1372.4	1500.1	1684.1	1809.3
30°	1844.9	1851.3	1840.9	1655.9	1445.1	1336.3	1356.1	1393.7	1542.6	1747.9	1925.0
32.5°	1961.2	1969.1	1949.3	1731.6	1498.1	1402.1	1445.6	1463.9	1602.5	1840.0	2047.7
35°	2094.7	2110.1	2069.0	1831.5	1653.9	1642.1	1705.4	1681.6	1729.6	1948.8	2178.9
37.5°	2235.3	2235.7	2176.9	1979.5	1959.7	1980.0	2106.6	2032.4	1999.3	2070.0	2312.4
40°	2354.5	2351.5	2261.0	2178.9	2225.9	2306.5	2459.4	2345.6	2258.5	2232.8	2423.3
42.5°	2473.7	2462.8	2371.3	2305.5	2409.4	2575.1	2747.8	2608.3	2424.7	2380.7	2532.6
45°	2626.1	2622.6	2512.3	2356.0	2575.1	2875.9	3105.0	2878.9	2523.2	2466.8	2714.7
47.5°	2872.0	2855.2	2649.8	2352.0	2730.5	3276.7	3566.1	3219.8	2592.0	2468.8	3008.5
50°	3112.4	3091.7	2814.1	2351.5	2890.8	3692.3	4110.3	3633.9	2662.2	2480.6	3307.4
52.5°	3355.4	3355.4	3083.7	2407.4	3059.0	4156.3	4739.2	4149.9	2781.9	2636.0	3675.0
55°	3499.8	3538.4	3387.0	2501.9	3255.9	4702.5	5361.0	4707.0	2967.0	2916.5	4014.4
57.5°	3316.3	3388.5	3366.7	2436.1	3372.2	5103.8	5888.4	5129.5	3058.5	2949.7	3963.4
60°	2702.3	2802.7	2852.7	2103.7	3257.4	5150.3	5998.8	5157.2	2869.5	2511.8	3394.9
62.5°	1796.4	1879.0	1955.2	1503.0	2820.0	4633.3	5305.6	4634.8	2396.5	1874.6	2352.0
65°	881.1	942.5	1024.6	888.6	2203.1	3871.4	4136.6	3745.2	1733.6	1049.4	1199.8
67.5°	230.6	247.9	259.2	344.8	1578.2	2781.4	2697.8	2739.4	1113.7	342.9	313.7
70°	119.7	120.7	120.2	142.5	1066.7	1767.7	1859.2	1720.2	777.2	143.5	123.7
72.5°	85.6	86.1	84.6	96.0	515.0	1012.7	1049.4	1038.0	407.2	85.1	84.6
75°	55.9	56.4	55.4	56.4	77.7	115.3	106.4	111.8	67.8	53.9	53.9
77.5°	33.1	33.6	33.1	34.1	33.1	33.1	30.7	30.7	29.2	29.2	29.7
80°	22.3	22.3	21.8	22.8	20.8	20.8	19.8	19.3	17.8	17.3	17.3
82.5°	13.4	13.9	13.4	13.4	12.4	12.4	11.4	10.9	9.4	9.4	8.9
85°	6.9	6.9	6.4	6.4	5.4	4.9	4.0	4.0	3.0	2.5	2.5
87.5°	1.0	1.0	0.5	0.5	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1185.9	1176.0	1161.2	1146.8	1133.5	1119.6	1103.8	1087.4	1073.6	1059.2	1051.8
5°	1257.6	1237.4	1198.8	1164.6	1134.0	1108.7	1081.5	1058.3	1036.5	1018.7	1009.8
7.5°	1322.5	1290.8	1232.4	1178.5	1136.9	1102.3	1064.7	1030.1	1000.9	979.1	970.7
10°	1382.3	1344.7	1268.0	1199.8	1151.3	1112.7	1066.7	1019.7	981.1	952.4	945.5
12.5°	1430.8	1387.8	1296.2	1217.1	1159.7	1118.1	1077.6	1037.0	998.9	961.8	955.8
15°	1473.8	1422.9	1317.5	1228.0	1156.7	1103.8	1069.6	1064.7	1064.7	1022.6	1010.8
17.5°	1510.9	1455.0	1334.8	1232.9	1137.9	1061.2	1040.4	1083.5	1132.0	1101.8	1075.1
20°	1553.5	1485.7	1349.2	1232.9	1103.3	1007.3	1005.3	1078.5	1150.3	1150.8	1122.6
22.5°	1596.5	1521.3	1366.0	1228.4	1055.8	945.0	981.6	1058.8	1122.6	1149.8	1130.5
25°	1666.3	1570.8	1392.7	1225.0	1000.4	902.4	960.3	1032.5	1086.5	1115.2	1102.8
27.5°	1754.9	1636.1	1433.3	1230.4	945.5	877.2	937.5	998.4	1047.4	1072.6	1063.7
30°	1853.8	1711.3	1476.8	1239.8	905.9	864.3	910.3	959.3	1002.8	1028.1	1024.1
32.5°	1980.0	1793.0	1514.4	1227.0	883.6	857.9	881.6	916.8	958.8	974.6	978.1
35°	2130.9	1883.0	1543.1	1176.5	863.3	851.0	850.5	872.2	901.9	927.1	929.6
37.5°	2269.9	1988.4	1574.8	1089.9	826.7	833.6	813.9	826.7	855.9	881.1	891.0
40°	2407.4	2095.2	1618.8	979.6	778.7	795.1	771.8	780.7	804.0	837.1	852.9
42.5°	2541.0	2191.7	1665.3	866.8	730.7	741.1	723.8	732.7	757.0	798.5	816.3
45°	2686.5	2322.3	1701.4	760.4	689.2	684.7	670.9	683.7	720.3	765.9	787.1
47.5°	2961.5	2528.1	1725.2	689.7	666.9	634.8	618.9	646.6	688.2	734.2	759.9
50°	3297.5	2826.0	1718.2	644.7	647.6	583.3	577.9	614.5	659.0	707.0	735.2
52.5°	3563.6	3118.4	1639.6	601.6	610.0	550.6	534.8	588.3	630.8	679.8	709.0
55°	3767.0	3216.8	1398.1	550.6	548.7	526.9	493.8	561.0	602.6	648.1	679.8
57.5°	3601.2	2997.7	1036.5	480.4	468.5	479.9	447.7	515.0	568.0	613.0	641.2
60°	2988.7	2390.1	577.4	425.5	391.8	419.5	414.6	466.5	530.4	577.9	602.1
62.5°	2028.9	1591.6	342.4	336.4	317.6	357.2	383.4	417.6	480.4	519.0	541.7
65°	1011.3	773.3	227.6	251.8	254.3	293.9	343.4	381.0	433.4	473.0	495.7
67.5°	293.4	240.4	173.2	192.5	219.2	250.8	290.4	334.9	385.9	432.9	459.6
70°	126.7	128.1	137.5	160.3	186.5	219.2	258.8	302.3	345.3	381.4	401.7
72.5°	89.5	93.0	103.4	126.7	151.4	182.6	222.1	264.2	295.4	332.0	353.2
75°	57.4	59.9	68.3	86.1	104.4	134.6	172.2	210.8	242.9	269.1	289.4
77.5°	31.7	32.2	39.1	49.5	61.8	81.1	108.8	139.0	162.8	177.6	195.9
80°	18.3	18.3	21.8	28.2	35.6	47.5	62.8	77.7	92.0	101.4	110.3
82.5°	9.9	9.9	11.4	15.3	19.3	26.2	35.1	42.5	51.5	56.4	62.3
85°	3.0	3.0	4.0	5.4	6.9	9.9	13.9	17.8	21.8	25.2	28.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1050.3	1043.4	1039.5	1034.5	1036.0	1031.5	1029.1	1030.6	1021.6	1030.6	1039.5
5°	1006.3	996.4	988.5	982.1	979.1	973.2	969.7	969.7	964.3	973.2	984.0
7.5°	967.7	959.8	955.8	951.9	947.4	942.0	936.1	934.1	930.6	940.0	949.4
10°	942.0	943.0	945.5	950.9	949.9	946.4	937.5	932.6	932.6	943.5	957.8
12.5°	953.9	964.3	970.2	980.1	982.1	979.1	970.2	966.2	976.1	992.5	1016.2
15°	999.9	1006.8	1011.8	1019.7	1019.2	1016.7	1009.8	1012.7	1045.4	1077.1	1098.3
17.5°	1049.8	1041.9	1040.9	1045.9	1047.4	1044.4	1040.4	1053.8	1107.7	1137.4	1148.3
20°	1086.0	1058.8	1052.8	1054.8	1058.8	1057.3	1057.3	1079.0	1134.9	1148.8	1134.9
22.5°	1096.8	1058.3	1049.4	1049.8	1055.3	1055.8	1058.3	1081.0	1113.7	1114.2	1092.9
25°	1079.5	1042.4	1036.0	1037.0	1043.4	1042.9	1043.9	1056.8	1071.1	1065.2	1049.4
27.5°	1046.9	1014.7	1012.7	1018.2	1026.6	1022.1	1019.2	1022.6	1029.6	1022.1	1008.3
30°	1009.8	982.6	983.6	993.9	1002.8	995.4	988.0	990.0	990.5	982.6	966.7
32.5°	970.7	950.4	953.9	964.8	975.1	967.2	959.3	958.3	948.9	939.5	924.2
35°	931.6	923.7	928.1	937.0	946.0	939.5	934.6	931.6	911.3	897.5	884.6
37.5°	896.0	901.9	909.8	915.3	918.2	917.7	914.8	907.9	881.1	864.8	848.0
40°	864.3	882.6	891.0	893.5	898.0	897.0	896.5	886.6	851.5	834.1	814.8
42.5°	835.6	861.3	875.7	878.2	880.6	881.1	879.7	865.3	825.2	804.9	786.6
45°	807.9	841.6	859.9	857.4	860.9	860.9	862.3	843.5	799.5	778.7	759.4
47.5°	783.7	823.3	840.1	837.1	839.1	840.6	842.1	820.3	771.3	751.5	731.7
50°	761.4	803.5	817.8	818.8	818.8	822.3	821.8	800.5	747.6	726.3	706.5
52.5°	737.7	783.2	798.5	804.9	806.9	808.4	801.5	776.7	723.3	697.6	679.3
55°	710.0	762.4	776.3	784.7	788.6	787.6	778.2	753.0	698.6	672.9	652.1
57.5°	667.9	717.9	737.7	741.6	748.1	744.1	733.2	711.9	659.0	633.3	612.0
60°	621.9	658.0	673.8	677.3	672.4	673.8	672.4	652.1	606.1	585.8	564.0
62.5°	561.5	593.7	610.5	615.0	606.6	612.0	610.0	584.8	538.8	517.5	498.2
65°	516.0	551.1	570.9	573.4	570.9	573.4	566.5	535.8	492.3	470.5	450.7
67.5°	480.4	516.5	537.3	544.2	541.7	541.2	530.4	494.7	449.7	426.0	400.7
70°	419.0	450.7	477.4	494.2	494.2	484.8	464.1	430.9	394.8	374.5	354.7
72.5°	371.1	411.1	437.4	454.7	458.1	452.7	423.5	388.4	346.8	326.5	305.8
75°	305.8	344.8	373.0	395.8	400.2	394.3	360.7	326.0	287.4	267.7	246.9
77.5°	204.3	227.6	250.3	271.1	266.7	270.6	247.9	221.6	197.9	183.1	173.7
80°	115.3	130.6	137.5	148.9	148.9	148.9	134.1	121.7	108.3	99.9	90.5
82.5°	65.3	75.2	78.2	87.6	90.0	90.5	80.6	72.7	64.3	59.9	53.4
85°	30.2	35.6	36.1	41.6	43.5	47.5	43.0	37.6	32.7	30.7	26.7
87.5°	1.0	3.0	4.0	7.4	9.9	11.4	12.4	12.4	10.4	9.4	7.9
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-SA2B-740-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2	1109.2
2.5°	1050.3	1062.2	1076.1	1086.0	1103.8	1118.6	1134.0	1150.8	1163.1	1160.2
5°	997.4	1017.2	1042.4	1065.7	1098.8	1132.5	1169.6	1207.7	1229.9	1228.9
7.5°	967.7	995.9	1026.6	1057.8	1096.8	1145.3	1202.2	1261.6	1291.8	1293.3
10°	983.6	1013.7	1034.5	1060.7	1101.8	1162.6	1230.9	1302.2	1336.8	1343.7
12.5°	1033.5	1031.0	1029.6	1048.4	1097.8	1175.0	1258.6	1343.7	1382.8	1391.2
15°	1081.0	1030.1	999.4	1012.2	1080.0	1182.9	1285.8	1389.2	1433.3	1442.2
17.5°	1089.9	1012.7	955.8	964.8	1051.8	1185.4	1312.1	1433.8	1481.3	1489.7
20°	1065.2	990.5	924.2	911.8	1016.2	1179.0	1328.4	1470.9	1522.8	1531.7
22.5°	1034.0	970.7	900.4	868.3	972.7	1172.5	1346.7	1510.0	1569.8	1577.7
25°	1001.4	945.5	878.2	829.2	923.2	1168.6	1377.4	1561.4	1633.6	1643.0
27.5°	966.7	914.8	858.9	810.4	877.7	1173.5	1420.9	1644.5	1726.7	1740.0
30°	929.6	884.1	846.5	804.0	846.5	1178.0	1468.9	1729.6	1826.1	1844.9
32.5°	891.0	855.9	833.6	806.9	827.2	1167.6	1510.9	1825.1	1944.8	1961.2
35°	852.4	827.2	817.3	812.4	801.5	1129.5	1545.1	1921.6	2080.4	2094.7
37.5°	816.3	797.5	794.6	800.0	761.9	1067.2	1584.7	2044.3	2213.5	2235.3
40°	782.7	765.4	764.9	763.9	718.4	982.1	1638.1	2169.0	2344.6	2354.5
42.5°	751.5	729.7	733.7	721.8	682.7	890.0	1688.6	2275.3	2466.8	2473.7
45°	723.8	695.1	699.6	684.7	665.9	793.6	1733.1	2401.0	2621.6	2626.1
47.5°	697.1	666.4	654.1	653.1	663.0	704.5	1776.6	2642.9	2864.1	2872.0
50°	672.4	639.2	604.1	625.9	644.7	637.7	1831.0	2902.2	3114.4	3112.4
52.5°	648.6	605.1	555.1	597.2	597.2	588.3	1815.7	3059.5	3321.2	3355.4
55°	621.4	550.2	504.1	549.2	527.4	543.7	1544.1	3110.9	3451.3	3499.8
57.5°	567.5	482.4	442.3	466.5	433.9	504.1	1109.2	2855.7	3230.2	3316.3
60°	515.5	432.4	406.2	401.7	359.2	411.1	718.9	2235.7	2658.8	2702.3
62.5°	454.7	389.4	367.1	333.0	288.9	299.3	435.4	1471.4	1786.5	1796.4
65°	408.7	352.8	310.2	269.6	236.5	217.2	257.3	709.5	893.0	881.1
67.5°	350.8	302.3	261.7	232.5	205.3	181.1	171.2	210.8	238.5	230.6
70°	312.2	265.7	226.6	198.9	173.7	149.4	132.1	124.2	121.7	119.7
72.5°	269.1	228.6	188.0	161.3	137.5	115.3	99.4	90.0	87.6	85.6
75°	214.7	176.6	139.5	114.3	93.5	77.7	67.3	59.4	57.9	55.9
77.5°	142.0	113.3	83.1	67.8	55.4	47.0	40.1	35.1	34.1	33.1
80°	78.2	65.3	51.0	41.1	33.1	28.7	26.2	23.3	22.8	22.3
82.5°	46.5	39.1	29.2	23.3	19.3	17.3	15.8	14.3	13.9	13.4
85°	23.3	18.3	12.9	10.9	9.9	8.9	8.9	7.4	6.9	6.9
87.5°	5.9	4.9	3.0	2.5	2.5	2.5	2.0	1.5	1.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)