

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: P633309

Luminaire Tested: GWS-SA2E-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7824 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

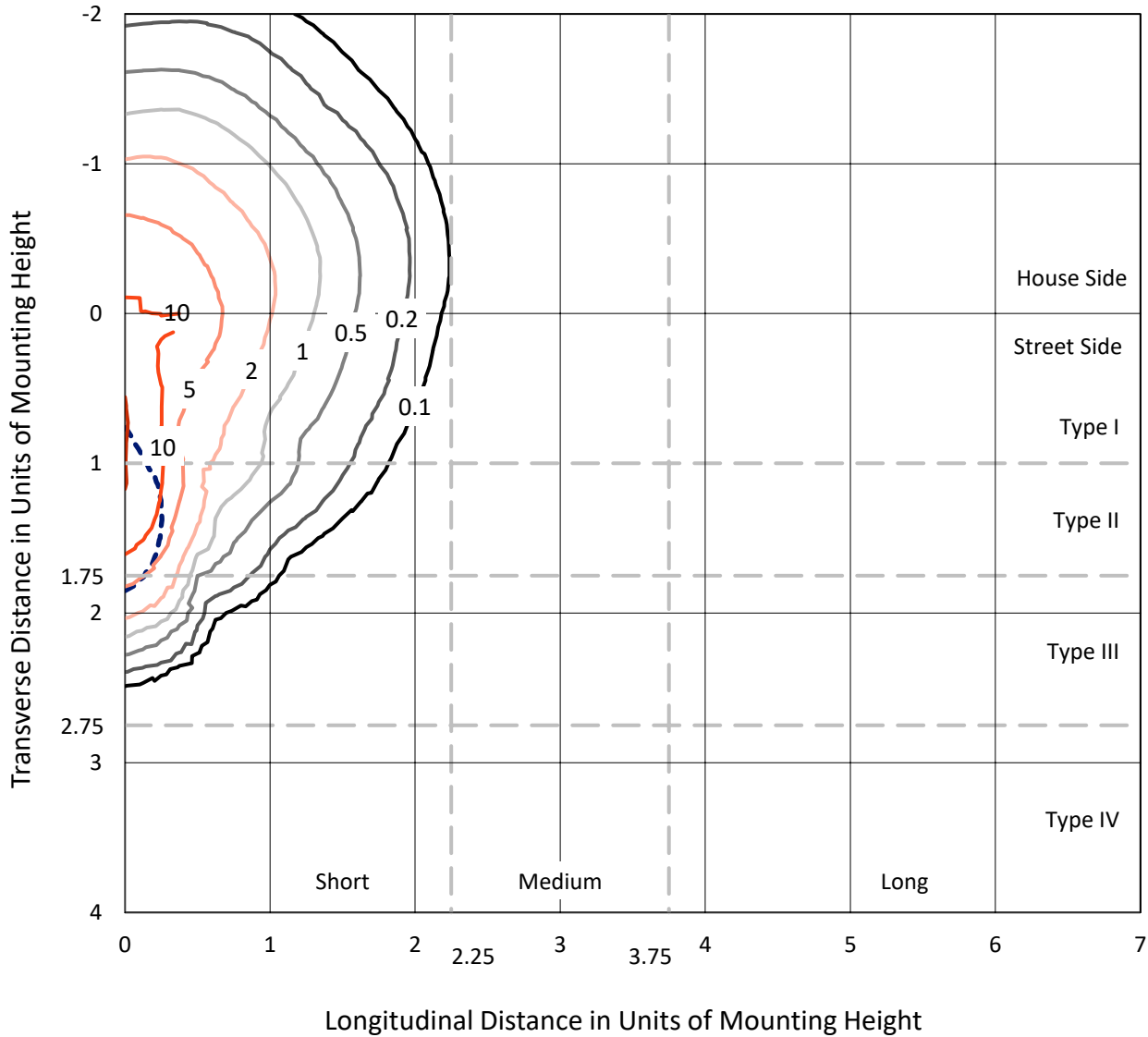
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

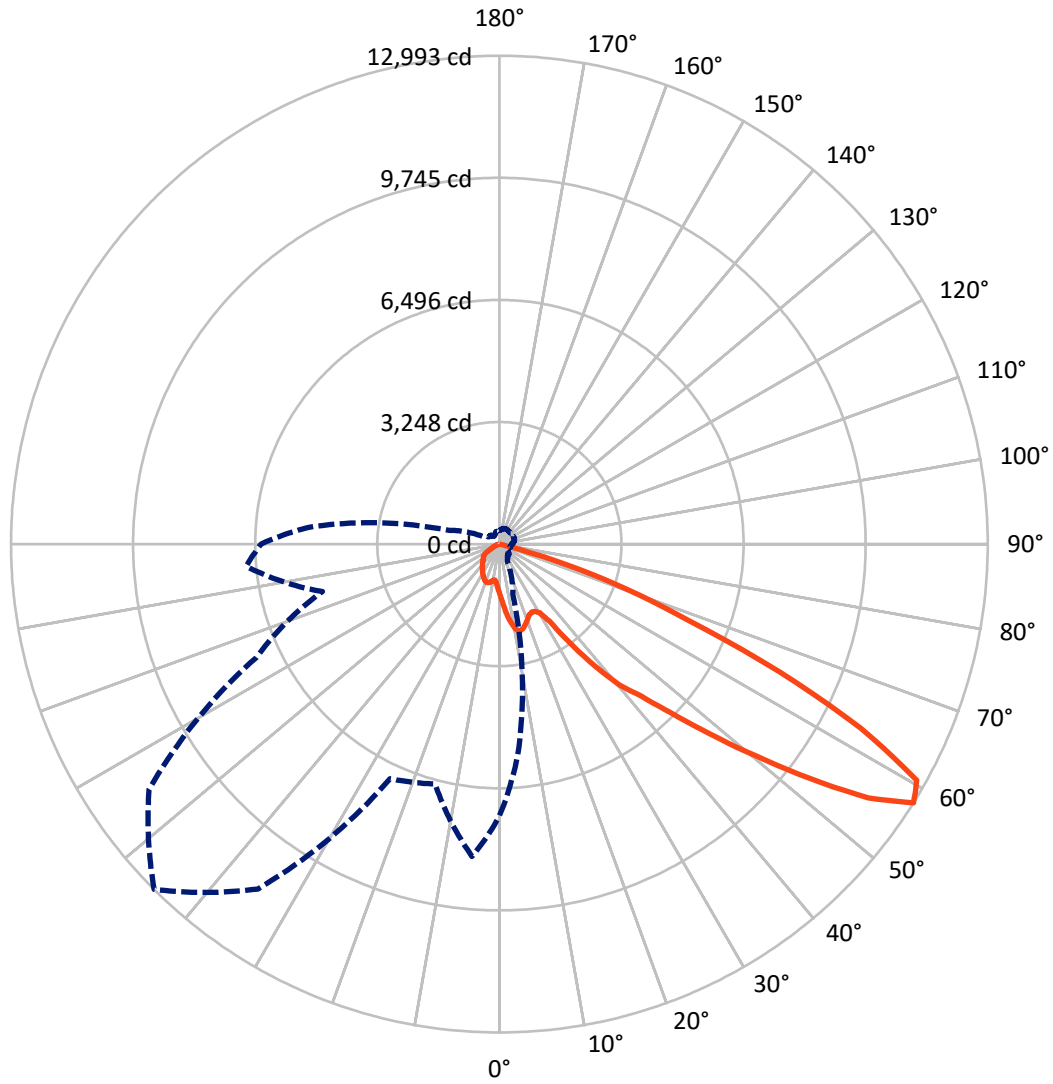
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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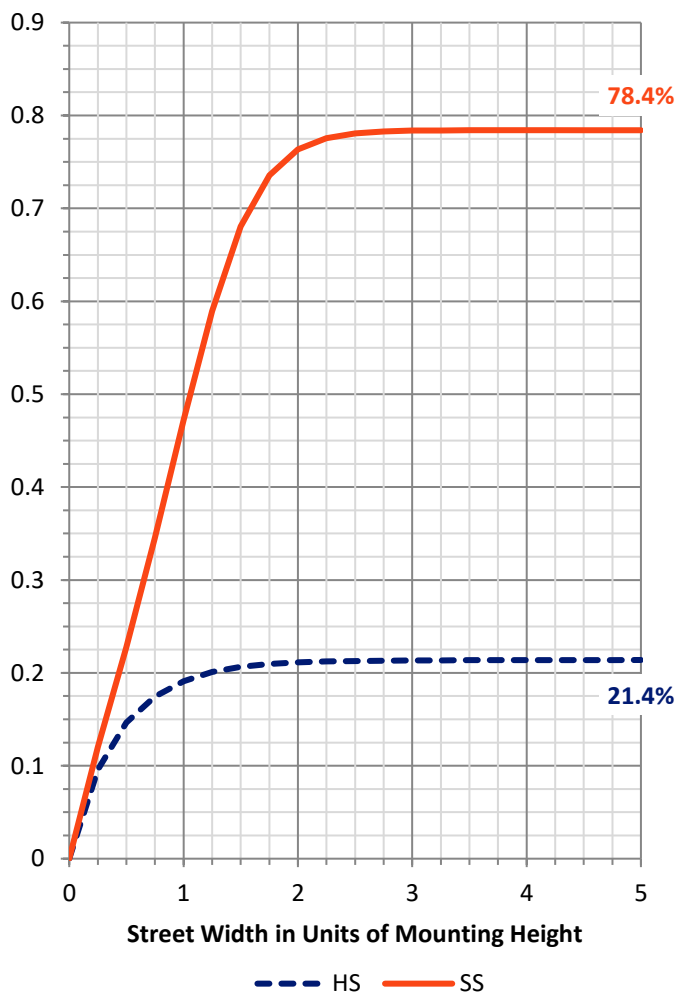
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1685.6	0.0	1685.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6138.4	0.0	6138.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	7824.0	0.0	7824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.7
10°-20°	432.4	5.5
20°-30°	701.7	9.0
30°-40°	1076.9	13.8
40°-50°	1719.9	22.0
50°-60°	2408.2	30.8
60°-70°	1234.7	15.8
70°-80°	118.9	1.5
80°-90°	0.0	0.0
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°	7824.0	100.0
0°-180°	7824.0	100.0

Coefficient of Utilization

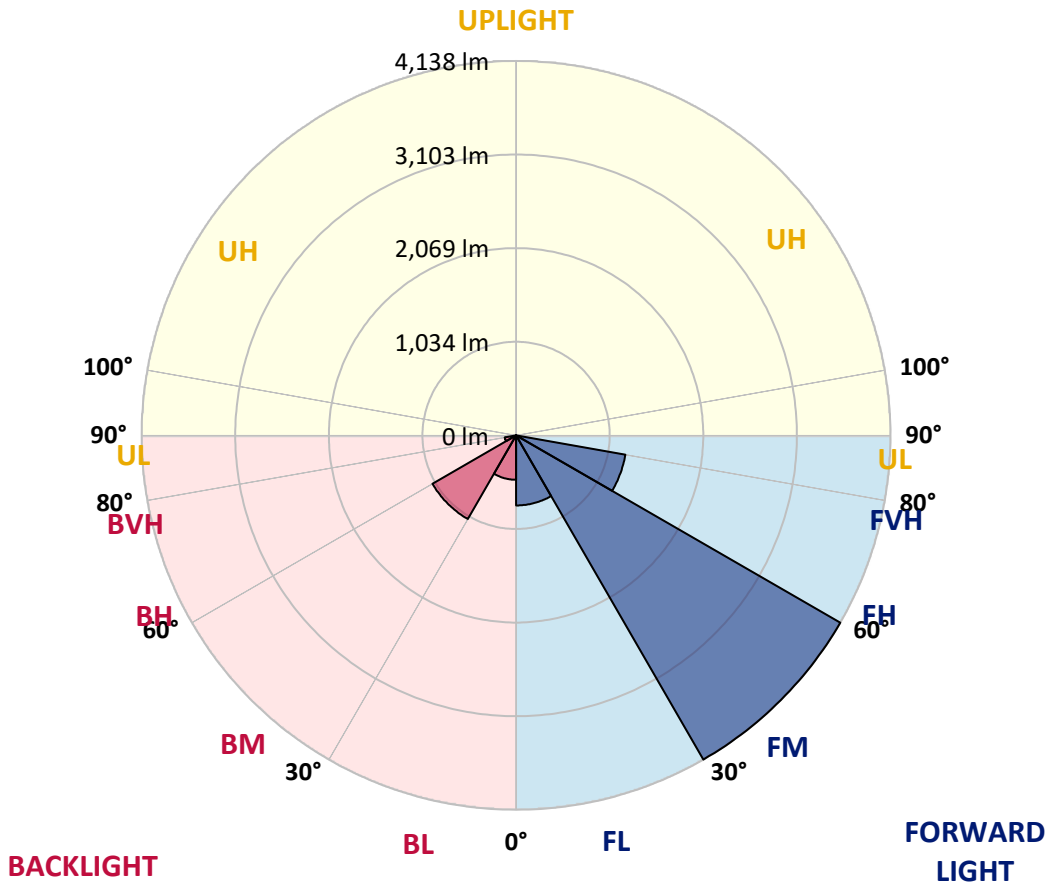


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.6	9.9			
FM (30°-60°)	4137.5	52.9			
FH (60°-80°)	1226.3	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	490.8	6.3	B1/500		
BM (30°-60°)	1067.4	13.6	B2/2500		
BH (60°-80°)	127.3	1.6	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
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°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1476.9	1473.8	1463.3	1427.7	1405.8	1371.3	1346.1	1313.7	1278.2	1256.2	1234.2
5°	1633.8	1625.4	1597.2	1515.6	1452.8	1384.8	1330.5	1270.8	1207.0	1165.2	1126.5
7.5°	1784.4	1771.9	1734.2	1596.1	1501.0	1403.7	1326.3	1239.5	1149.5	1086.8	1038.6
10°	1931.9	1903.6	1844.0	1674.6	1545.9	1428.8	1337.8	1238.4	1132.8	1053.3	999.9
12.5°	2053.2	2032.3	1950.7	1748.8	1583.6	1434.0	1322.1	1230.0	1158.9	1105.6	1056.4
15°	2157.8	2134.8	2057.4	1815.8	1616.0	1413.1	1256.2	1175.7	1187.2	1208.1	1166.2
17.5°	2254.0	2230.0	2146.3	1871.2	1628.6	1361.8	1164.2	1125.5	1189.3	1267.7	1252.0
20°	2353.4	2326.2	2223.7	1916.2	1624.4	1281.3	1071.1	1082.6	1172.5	1262.5	1270.8
22.5°	2469.5	2441.3	2322.0	1973.7	1621.2	1185.1	990.5	1044.9	1141.1	1217.5	1232.1
25°	2623.3	2589.8	2459.0	2058.4	1629.6	1097.2	933.0	1008.3	1087.8	1156.8	1165.2
27.5°	2826.2	2783.3	2617.0	2163.0	1647.4	1028.2	907.9	958.1	1019.8	1081.5	1088.8
30°	3090.8	3036.4	2797.9	2254.0	1639.0	980.1	891.2	907.9	944.5	994.7	995.8
32.5°	3400.4	3326.1	3000.9	2332.5	1566.8	944.5	868.1	856.6	865.0	903.7	911.0
35°	3764.4	3668.2	3224.7	2406.8	1435.1	875.5	826.3	787.6	784.5	803.3	821.1
37.5°	4181.7	4066.7	3507.1	2501.9	1279.2	803.3	764.6	725.9	709.2	718.6	745.8
40°	4566.7	4439.0	3802.1	2617.0	1120.2	738.4	692.4	652.7	632.8	635.9	669.4
42.5°	5018.5	4886.7	4162.9	2767.6	988.4	694.5	617.1	576.3	550.2	564.8	603.5
45°	5704.7	5555.1	4689.0	2898.4	883.8	684.1	551.2	493.7	481.1	506.2	552.3
47.5°	6641.8	6458.8	5411.8	2977.8	794.9	693.5	505.2	426.8	429.9	458.1	504.2
50°	7571.7	7374.0	6247.5	2873.2	721.7	674.6	482.2	374.5	394.3	419.4	461.3
52.5°	8210.8	7953.5	6654.4	2571.0	654.8	603.5	480.1	325.3	362.9	371.3	406.9
55°	8235.9	7919.0	6446.2	2027.1	563.8	509.4	458.1	284.5	328.4	331.6	361.9
57.5°	7219.2	6932.6	5633.5	1392.2	501.0	373.4	365.0	248.9	269.9	296.0	314.8
60°	5492.3	5248.6	4213.1	638.0	380.7	237.4	250.0	214.4	201.9	240.6	259.4
62.5°	3363.8	3208.0	2527.0	282.4	242.7	126.6	151.7	170.5	151.7	166.3	182.0
65°	1335.7	1266.7	959.1	120.3	99.4	63.8	69.0	99.4	106.7	117.1	131.8
67.5°	232.2	219.7	161.1	53.3	40.8	38.7	33.5	46.0	64.8	72.2	83.7
70°	30.3	29.3	26.1	22.0	20.9	18.8	14.6	29.3	43.9	46.0	53.3
72.5°	7.3	6.3	6.3	5.2	6.3	2.1	2.1	15.7	31.4	32.4	37.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	19.9	22.0	26.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1216.4	1195.5	1188.2	1177.7	1164.2	1168.3	1149.5	1143.2	1152.6	1165.2	1162.1
5°	1105.6	1082.6	1066.9	1042.8	1038.6	1029.2	1022.9	1014.6	1025.0	1039.7	1042.8
7.5°	1017.7	997.8	982.2	974.8	969.6	965.4	952.9	946.6	946.6	952.9	958.1
10°	980.1	965.4	962.3	964.4	972.7	971.7	960.2	951.8	941.4	936.1	942.4
12.5°	1032.4	1008.3	1004.1	1005.2	1015.6	1014.6	1002.0	991.6	989.5	991.6	1011.4
15°	1121.3	1084.7	1057.5	1052.2	1057.5	1055.4	1046.0	1039.7	1042.8	1073.2	1106.6
17.5°	1200.8	1144.3	1095.1	1076.3	1075.2	1072.1	1062.7	1060.6	1076.3	1132.8	1181.9
20°	1223.8	1168.3	1098.3	1074.2	1069.0	1065.8	1055.4	1058.5	1078.4	1146.4	1188.2
22.5°	1193.4	1140.1	1066.9	1042.8	1038.6	1037.6	1027.1	1031.3	1048.1	1107.7	1142.2
25°	1135.9	1090.9	1014.6	993.7	993.7	991.6	982.2	984.2	994.7	1047.0	1080.5
27.5°	1065.8	1022.9	959.1	938.2	941.4	944.5	933.0	929.9	938.2	987.4	1007.3
30°	985.3	955.0	904.8	885.9	884.9	897.4	881.7	877.6	889.1	927.8	931.9
32.5°	906.8	892.2	856.6	842.0	843.0	845.1	836.8	836.8	847.2	868.1	867.1
35°	830.5	821.1	814.8	804.3	803.3	799.1	799.1	801.2	812.7	820.0	806.4
37.5°	757.3	766.7	774.0	763.5	755.2	755.2	755.2	764.6	775.1	771.9	748.9
40°	692.4	712.3	735.3	723.8	703.9	702.9	707.1	722.8	738.4	719.6	698.7
42.5°	637.0	662.1	694.5	688.2	666.3	663.1	666.3	686.1	698.7	674.6	651.6
45°	582.6	614.0	652.7	652.7	628.6	625.5	626.5	652.7	660.0	631.8	602.5
47.5°	536.6	571.1	611.9	611.9	592.0	585.7	591.0	618.2	623.4	583.6	556.5
50°	492.6	530.3	575.3	572.1	558.5	553.3	562.7	592.0	585.7	541.8	513.6
52.5°	437.2	477.0	538.7	541.8	534.5	535.5	547.0	565.9	548.1	494.7	470.7
55°	387.0	427.8	489.5	506.2	506.2	505.2	510.4	525.1	510.4	446.6	417.3
57.5°	332.6	367.1	418.4	422.6	425.7	414.2	421.5	441.4	434.1	379.7	362.9
60°	273.0	302.3	331.6	334.7	321.1	297.1	310.6	333.7	338.9	298.1	279.3
62.5°	193.5	221.7	256.3	256.3	242.7	218.6	236.4	256.3	248.9	207.1	195.6
65°	144.3	170.5	196.6	208.1	196.6	179.9	193.5	208.1	196.6	162.1	145.4
67.5°	93.1	110.9	126.6	136.0	138.1	136.0	142.3	138.1	124.5	101.5	92.0
70°	56.5	65.9	74.3	82.6	88.9	92.0	95.2	85.8	72.2	59.6	56.5
72.5°	40.8	49.2	56.5	62.8	70.1	72.2	72.2	65.9	53.3	41.8	38.7
75°	28.2	35.6	41.8	46.0	52.3	54.4	54.4	49.2	39.7	30.3	27.2
77.5°	1.0	7.3	7.3	6.3	8.4	10.5	10.5	12.6	11.5	8.4	7.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1168.3	1206.0	1216.4	1255.2	1289.7	1324.2	1366.0	1391.1	1428.8	1454.9	1469.6
5°	1053.3	1084.7	1122.3	1179.8	1239.5	1305.4	1384.8	1453.9	1540.7	1604.5	1625.4
7.5°	969.6	1010.4	1054.3	1126.5	1208.1	1295.9	1407.9	1520.8	1653.7	1740.5	1795.9
10°	953.9	995.8	1054.3	1125.5	1211.2	1311.6	1448.7	1595.1	1761.4	1867.0	1929.8
12.5°	1029.2	1074.2	1099.3	1131.7	1196.6	1308.5	1484.2	1670.4	1866.0	1981.0	2048.0
15°	1140.1	1179.8	1139.0	1098.3	1140.1	1275.0	1504.1	1733.2	1958.0	2090.9	2159.9
17.5°	1216.4	1219.6	1130.7	1043.9	1055.4	1214.4	1511.4	1795.9	2056.4	2195.5	2267.6
20°	1209.1	1184.0	1094.1	997.8	962.3	1135.9	1503.0	1851.3	2155.7	2301.1	2372.2
22.5°	1152.6	1123.4	1047.0	952.9	883.8	1042.8	1488.4	1901.6	2246.7	2412.0	2478.9
25°	1084.7	1053.3	990.5	907.9	833.6	952.9	1476.9	1970.6	2361.8	2556.3	2608.6
27.5°	1005.2	978.0	924.6	865.0	812.7	884.9	1473.8	2061.6	2500.9	2732.0	2768.7
30°	927.8	902.7	860.8	826.3	804.3	845.1	1463.3	2158.9	2667.2	2933.9	2973.7
32.5°	853.5	828.4	802.3	797.0	798.1	830.5	1427.7	2255.1	2864.9	3226.8	3256.1
35°	789.7	760.4	750.0	762.5	785.5	805.4	1327.3	2334.6	3077.2	3545.8	3569.9
37.5°	729.0	699.7	698.7	729.0	754.1	766.7	1209.1	2413.0	3363.8	3870.0	3900.4
40°	673.6	644.3	654.8	691.4	711.3	717.5	1065.8	2532.3	3667.1	4212.1	4195.3
42.5°	626.5	596.2	602.5	649.5	667.3	684.1	934.0	2631.6	3959.0	4536.3	4531.1
45°	580.5	557.5	553.3	604.6	620.3	687.2	837.8	2708.0	4334.5	4949.5	4957.8
47.5°	535.5	517.7	518.8	540.8	579.5	702.9	756.2	2758.2	4879.4	5604.2	5458.9
50°	494.7	481.1	492.6	467.5	553.3	683.0	686.1	2747.7	5488.1	6231.8	5940.0
52.5°	449.8	446.6	451.9	391.2	511.5	602.5	620.3	2608.6	5773.7	6660.7	6494.4
55°	403.7	402.7	360.9	312.7	427.8	481.1	531.3	2176.6	5764.3	6888.7	7090.6
57.5°	349.4	341.0	274.0	255.2	332.6	334.7	484.3	1425.6	5108.5	6342.7	6761.1
60°	264.6	258.4	200.8	207.1	232.2	214.4	386.0	710.2	3817.7	4941.1	5412.8
62.5°	183.0	174.7	149.6	160.0	149.6	122.4	236.4	351.4	2312.6	3120.1	3547.9
65°	133.9	124.5	102.5	87.9	70.1	70.1	90.0	134.9	895.3	1326.3	1599.3
67.5°	82.6	78.4	60.7	43.9	42.9	46.0	47.1	66.9	144.3	230.1	281.4
70°	53.3	49.2	40.8	28.2	26.1	27.2	28.2	31.4	36.6	39.7	48.1
72.5°	36.6	34.5	29.3	15.7	12.6	13.6	14.6	14.6	17.8	16.7	19.9
75°	26.1	24.1	20.9	7.3	4.2	5.2	6.3	5.2	6.3	4.2	5.2
77.5°	7.3	7.3	5.2	1.0	0.0	1.0	2.1	2.1	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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	0.0



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CATALOG NUMBER: GWS-SA2E-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1507.2	1531.3	1540.7	1527.1	1538.6	1519.8	1512.5	1484.2	1482.1	1476.9
5°	1710.1	1764.5	1797.0	1816.8	1793.8	1768.7	1731.1	1666.2	1646.3	1633.8
7.5°	1909.9	1994.6	2050.1	2076.2	2070.0	2018.7	1950.7	1841.9	1803.2	1784.4
10°	2083.5	2187.1	2254.0	2286.5	2272.9	2227.9	2130.6	1994.6	1943.4	1931.9
12.5°	2204.9	2300.1	2346.1	2374.3	2375.4	2357.6	2265.5	2128.5	2067.9	2053.2
15°	2281.2	2322.0	2323.1	2339.8	2369.1	2408.8	2366.0	2244.6	2179.8	2157.8
17.5°	2329.4	2284.4	2238.4	2242.5	2290.6	2396.3	2440.2	2347.1	2278.1	2254.0
20°	2363.9	2221.6	2135.8	2136.9	2186.1	2346.1	2491.5	2446.5	2375.4	2353.4
22.5°	2385.8	2166.2	2043.8	2040.7	2093.0	2286.5	2538.5	2564.7	2494.6	2469.5
25°	2430.8	2140.0	1988.4	2006.1	2052.2	2267.6	2602.3	2721.6	2656.7	2623.3
27.5°	2511.3	2166.2	1983.1	2023.9	2076.2	2323.1	2713.2	2930.8	2863.8	2826.2
30°	2650.5	2264.5	2063.7	2120.2	2182.9	2468.5	2899.4	3222.6	3126.4	3090.8
32.5°	2874.3	2468.5	2312.6	2433.9	2494.6	2706.9	3178.7	3550.0	3471.5	3400.4
35°	3182.9	2933.9	2916.1	3198.5	3183.9	3158.8	3521.7	3951.6	3833.4	3764.4
37.5°	3607.5	3682.8	3814.6	4094.9	4085.5	3894.1	3972.6	4331.3	4270.6	4181.7
40°	4137.8	4297.8	4521.7	4923.3	4797.8	4557.2	4525.9	4720.4	4671.3	4566.7
42.5°	4450.6	4726.7	5153.4	5514.3	5413.9	4993.4	4957.8	5240.3	5132.5	5018.5
45°	4595.9	5076.0	5912.8	6401.3	6096.9	5283.1	5269.5	5918.0	5857.4	5704.7
47.5°	4662.9	5428.5	6801.9	7541.4	6972.4	5537.3	5488.1	6901.2	6821.7	6641.8
50°	4737.1	5914.9	7872.9	8862.4	8029.8	5824.9	5860.5	7817.5	7784.0	7571.7
52.5°	4900.3	6429.5	9191.9	10372.8	9312.2	6275.8	6499.6	8681.5	8455.5	8210.8
55°	5145.1	6990.1	10564.2	11915.6	10620.7	6881.4	7191.0	9140.6	8506.8	8235.9
57.5°	4874.2	7130.3	11376.9	12992.9	11201.2	6883.5	6606.3	8344.7	7481.7	7219.2
60°	3868.0	6633.5	11064.2	12759.7	10706.4	6112.6	5058.3	6515.3	5668.1	5492.3
62.5°	2614.9	5563.5	9740.0	10791.2	9163.6	4808.3	3287.4	4237.2	3509.2	3363.8
65°	1433.0	4150.4	7869.8	8163.7	7172.1	3358.6	1691.3	1838.8	1400.5	1335.7
67.5°	395.4	2888.9	5790.4	5416.0	5032.1	2187.1	437.2	328.4	234.3	232.2
70°	99.4	1911.0	3469.4	3576.1	3085.6	1400.5	83.7	39.7	31.4	30.3
72.5°	41.8	822.1	1646.3	1892.1	1579.4	648.5	30.3	11.5	9.4	7.3
75°	5.2	65.9	140.2	212.3	145.4	70.1	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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

(END OF REPORT)