

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: P633419

Luminaire Tested: GWS-SA2E-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633419
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7893.6 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

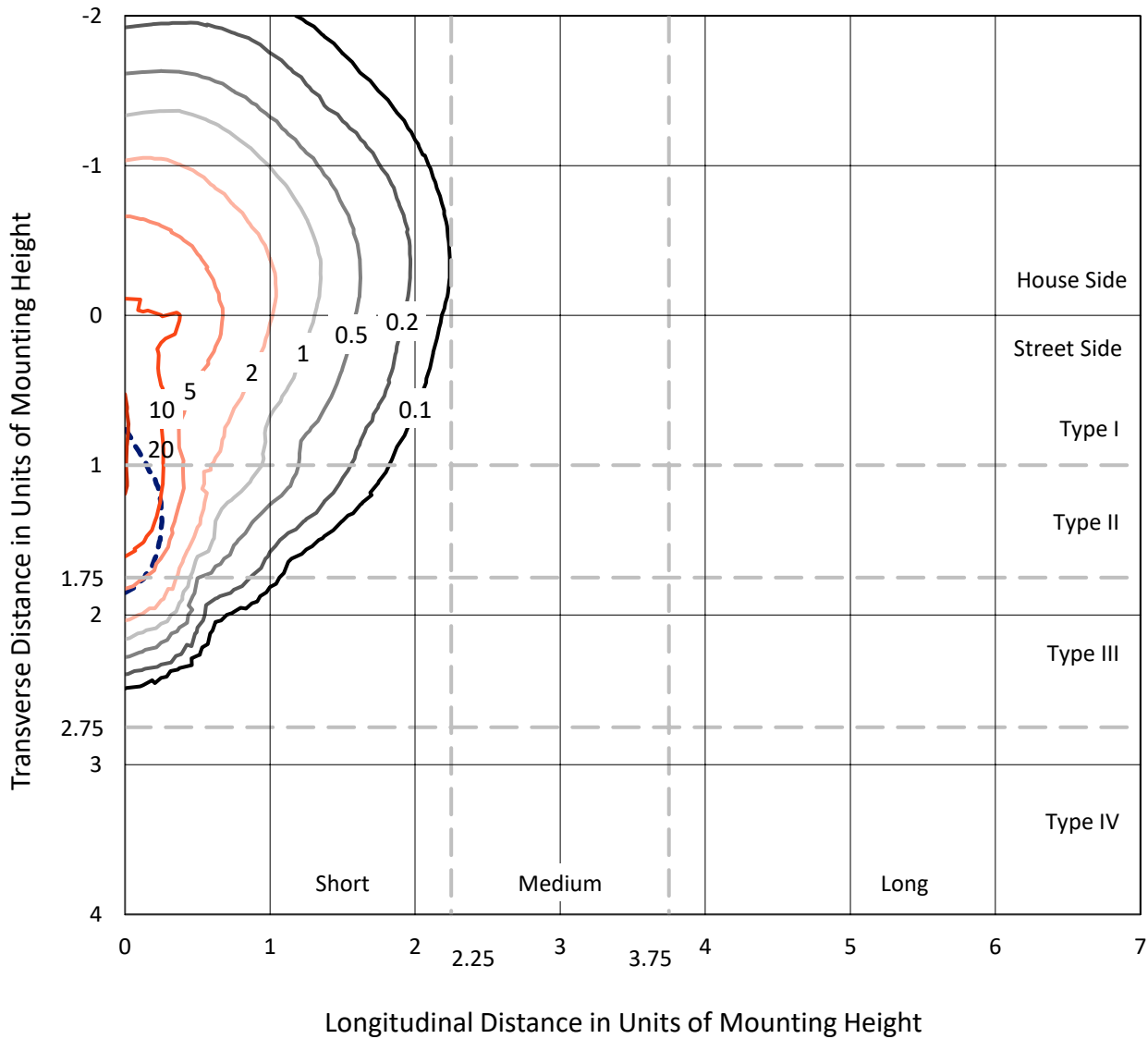
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

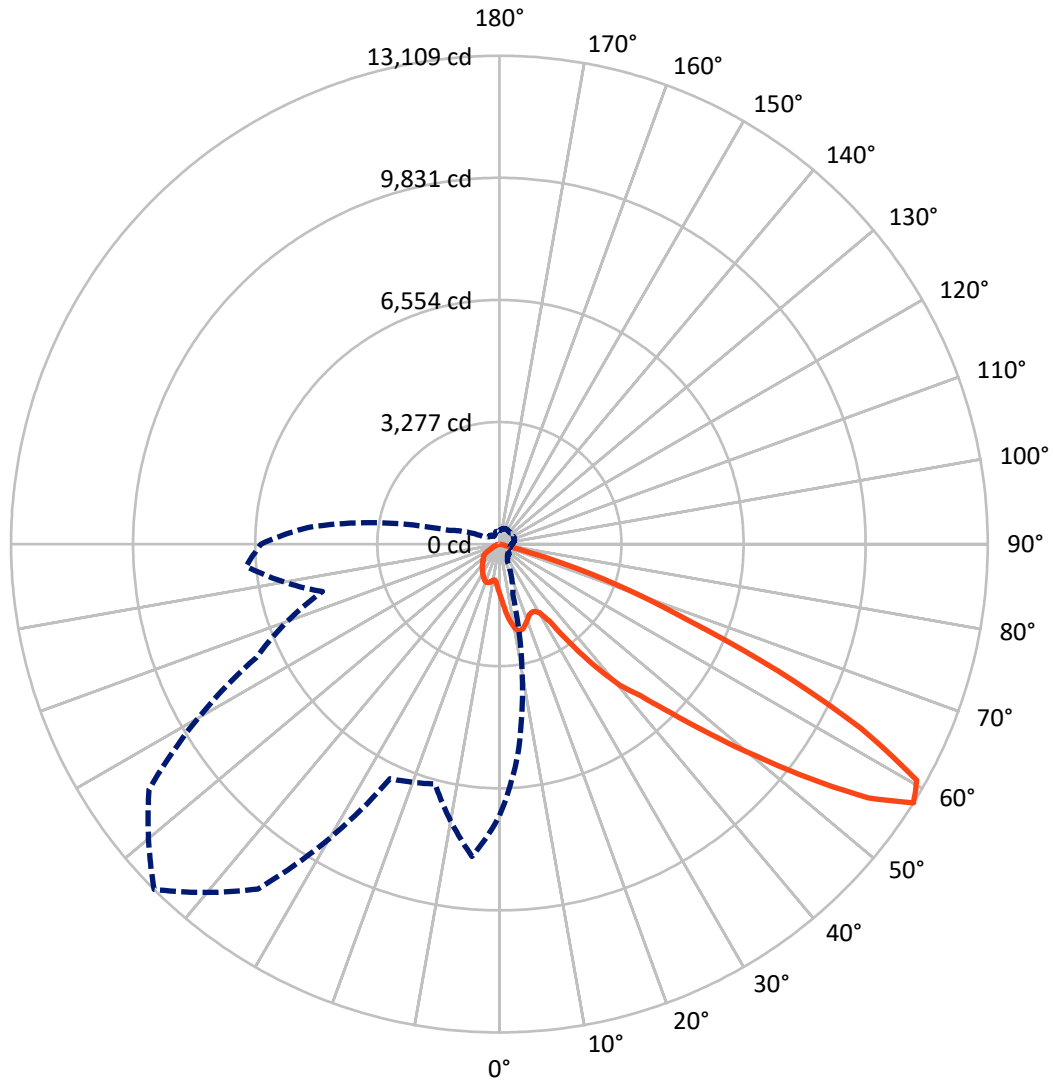
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 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	1700.6	0.0	1700.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6193.1	0.0	6193.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	7893.6	0.0	7893.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.7
10°-20°	436.2	5.5
20°-30°	707.9	9.0
30°-40°	1086.5	13.8
40°-50°	1735.2	22.0
50°-60°	2429.6	30.8
60°-70°	1245.7	15.8
70°-80°	119.9	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°	7893.6	100.0
0°-180°	7893.6	100.0

Coefficient of Utilization



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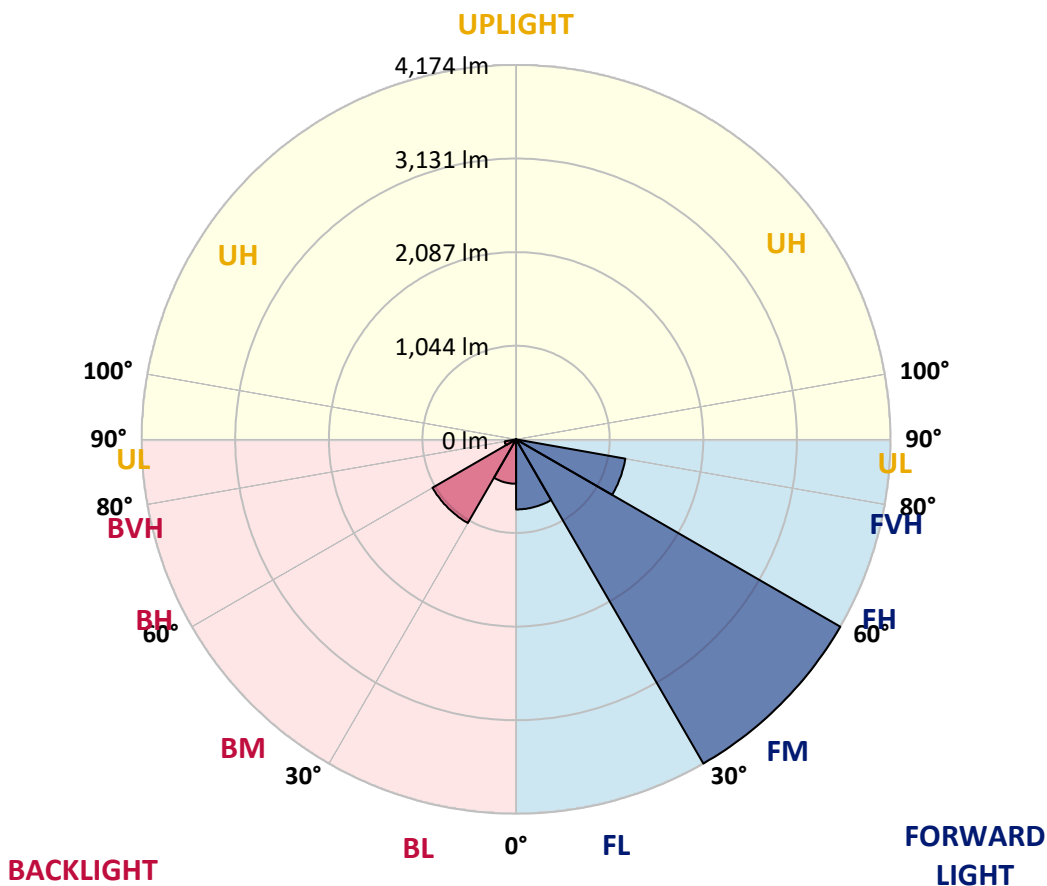
CATALOG NUMBER: GWS-SA2E-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.5	9.9			
FM (30°-60°)	4174.3	52.9			
FH (60°-80°)	1237.2	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	495.2	6.3	B1/500		
BM (30°-60°)	1076.9	13.6	B2/2500		
BH (60°-80°)	128.4	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°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1490.0	1486.9	1476.3	1440.4	1418.3	1383.5	1358.1	1325.4	1289.5	1267.4	1245.2
5°	1648.3	1639.9	1611.4	1529.1	1465.8	1397.2	1342.3	1282.1	1217.8	1175.6	1136.5
7.5°	1800.3	1787.6	1749.6	1610.3	1514.3	1416.2	1338.1	1250.5	1159.7	1096.4	1047.9
10°	1949.1	1920.6	1860.4	1689.5	1559.7	1441.5	1349.7	1249.4	1142.9	1062.7	1008.8
12.5°	2071.5	2050.4	1968.1	1764.4	1597.7	1446.8	1333.9	1241.0	1169.2	1115.4	1065.8
15°	2177.0	2153.8	2075.7	1831.9	1630.4	1425.7	1267.4	1186.1	1197.7	1218.8	1176.6
17.5°	2274.1	2249.8	2165.4	1887.9	1643.0	1374.0	1174.5	1135.5	1199.8	1279.0	1263.2
20°	2374.3	2346.9	2243.5	1933.2	1638.8	1292.7	1080.6	1092.2	1183.0	1273.7	1282.1
22.5°	2491.5	2463.0	2342.7	1991.3	1635.7	1195.6	999.3	1054.2	1151.3	1228.3	1243.1
25°	2646.6	2612.8	2480.9	2076.8	1644.1	1107.0	941.3	1017.3	1097.5	1167.1	1175.6
27.5°	2851.3	2808.1	2640.3	2182.3	1662.0	1037.3	916.0	966.6	1028.9	1091.1	1098.5
30°	3118.3	3063.4	2822.8	2274.1	1653.6	988.8	899.1	916.0	952.9	1003.6	1004.6
32.5°	3430.7	3355.7	3027.6	2353.2	1580.8	952.9	875.9	864.3	872.7	911.7	919.1
35°	3797.9	3700.8	3253.4	2428.2	1447.8	883.3	833.7	794.6	791.4	810.4	828.4
37.5°	4218.9	4102.9	3538.3	2524.2	1290.6	810.4	771.4	732.4	715.5	725.0	752.4
40°	4607.3	4478.5	3835.9	2640.3	1130.2	745.0	698.6	658.5	638.4	641.6	675.4
42.5°	5063.2	4930.2	4199.9	2792.2	997.2	700.7	622.6	581.5	555.1	569.8	608.9
45°	5755.4	5604.5	4730.7	2924.1	891.7	690.1	556.1	498.1	485.4	510.7	557.2
47.5°	6700.9	6516.3	5459.9	3004.3	802.0	699.6	509.7	430.5	433.7	462.2	508.6
50°	7639.1	7439.6	6303.1	2898.8	728.1	680.6	486.5	377.8	397.8	423.2	465.4
52.5°	8283.8	8024.2	6713.6	2593.8	660.6	608.9	484.4	328.2	366.2	374.6	410.5
55°	8309.1	7989.4	6503.6	2045.1	568.8	513.9	462.2	287.0	331.4	334.5	365.1
57.5°	7283.4	6994.3	5683.6	1404.6	505.5	376.7	368.3	251.2	272.3	298.6	317.6
60°	5541.2	5295.3	4250.6	643.7	384.1	239.5	252.2	216.3	203.7	242.7	261.7
62.5°	3393.7	3236.5	2549.5	284.9	244.8	127.7	153.0	172.0	153.0	167.8	183.6
65°	1347.6	1277.9	967.7	121.4	100.3	64.4	69.6	100.3	107.6	118.2	133.0
67.5°	234.3	221.6	162.5	53.8	41.2	39.0	33.8	46.4	65.4	72.8	84.4
70°	30.6	29.5	26.4	22.2	21.1	19.0	14.8	29.5	44.3	46.4	53.8
72.5°	7.4	6.3	6.3	5.3	6.3	2.1	2.1	15.8	31.7	32.7	38.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	20.1	22.2	26.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1227.3	1206.2	1198.8	1188.2	1174.5	1178.7	1159.7	1153.4	1162.9	1175.6	1172.4
5°	1115.4	1092.2	1076.4	1052.1	1047.9	1038.4	1032.0	1023.6	1034.2	1048.9	1052.1
7.5°	1026.8	1006.7	990.9	983.5	978.2	974.0	961.3	955.0	955.0	961.3	966.6
10°	988.8	974.0	970.8	973.0	981.4	980.3	968.7	960.3	949.7	944.5	950.8
12.5°	1041.5	1017.3	1013.1	1014.1	1024.7	1023.6	1010.9	1000.4	998.3	1000.4	1020.4
15°	1131.2	1094.3	1066.9	1061.6	1066.9	1064.8	1055.3	1048.9	1052.1	1082.7	1116.5
17.5°	1211.4	1154.5	1104.9	1085.9	1084.8	1081.6	1072.1	1070.0	1085.9	1142.9	1192.4
20°	1234.7	1178.7	1108.0	1083.8	1078.5	1075.3	1064.8	1067.9	1088.0	1156.6	1198.8
22.5°	1204.1	1150.2	1076.4	1052.1	1047.9	1046.8	1036.3	1040.5	1057.4	1117.5	1152.3
25°	1146.0	1100.6	1023.6	1002.5	1002.5	1000.4	990.9	993.0	1003.6	1056.3	1090.1
27.5°	1075.3	1032.0	967.7	946.6	949.7	952.9	941.3	938.1	946.6	996.2	1016.2
30°	994.1	963.5	912.8	893.8	892.8	905.4	889.6	885.4	897.0	936.0	940.2
32.5°	914.9	900.1	864.3	849.5	850.5	852.7	844.2	844.2	854.8	875.9	874.8
35°	837.9	828.4	822.1	811.5	810.4	806.2	806.2	808.3	819.9	827.3	813.6
37.5°	764.0	773.5	780.9	770.3	761.9	761.9	761.9	771.4	782.0	778.8	755.6
40°	698.6	718.6	741.9	730.2	710.2	709.1	713.4	729.2	745.0	726.0	704.9
42.5°	642.7	668.0	700.7	694.4	672.2	669.0	672.2	692.3	704.9	680.6	657.4
45°	587.8	619.4	658.5	658.5	634.2	631.0	632.1	658.5	665.9	637.4	607.8
47.5°	541.4	576.2	617.3	617.3	597.3	590.9	596.2	623.7	628.9	588.8	561.4
50°	497.0	535.0	580.4	577.2	563.5	558.2	567.7	597.3	590.9	546.6	518.1
52.5°	441.1	481.2	543.5	546.6	539.2	540.3	551.9	570.9	553.0	499.1	474.9
55°	390.4	431.6	493.9	510.7	510.7	509.7	515.0	529.7	515.0	450.6	421.1
57.5°	335.6	370.4	422.1	426.3	429.5	417.9	425.3	445.3	437.9	383.1	366.2
60°	275.4	305.0	334.5	337.7	324.0	299.7	313.4	336.6	341.9	300.8	281.8
62.5°	195.2	223.7	258.5	258.5	244.8	220.6	238.5	258.5	251.2	208.9	197.3
65°	145.6	172.0	198.4	210.0	198.4	181.5	195.2	210.0	198.4	163.6	146.7
67.5°	93.9	111.9	127.7	137.2	139.3	137.2	143.5	139.3	125.6	102.4	92.9
70°	57.0	66.5	74.9	83.4	89.7	92.9	96.0	86.5	72.8	60.2	57.0
72.5°	41.2	49.6	57.0	63.3	70.7	72.8	72.8	66.5	53.8	42.2	39.0
75°	28.5	35.9	42.2	46.4	52.8	54.9	54.9	49.6	40.1	30.6	27.4
77.5°	1.1	7.4	7.4	6.3	8.4	10.6	10.6	12.7	11.6	8.4	7.4
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°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1178.7	1216.7	1227.3	1266.3	1301.1	1336.0	1378.2	1403.5	1441.5	1467.9	1482.6
5°	1062.7	1094.3	1132.3	1190.3	1250.5	1317.0	1397.2	1466.8	1554.4	1618.8	1639.9
7.5°	978.2	1019.4	1063.7	1136.5	1218.8	1307.5	1420.4	1534.4	1668.4	1756.0	1811.9
10°	962.4	1004.6	1063.7	1135.5	1222.0	1323.3	1461.5	1609.3	1777.1	1883.6	1947.0
12.5°	1038.4	1083.8	1109.1	1141.8	1207.2	1320.1	1497.4	1685.3	1882.6	1998.7	2066.2
15°	1150.2	1190.3	1149.2	1108.0	1150.2	1286.4	1517.5	1748.6	1975.5	2109.5	2179.1
17.5°	1227.3	1230.4	1140.7	1053.2	1064.8	1225.2	1524.9	1811.9	2074.6	2215.0	2287.8
20°	1219.9	1194.6	1103.8	1006.7	970.8	1146.0	1516.4	1867.8	2174.9	2321.6	2393.3
22.5°	1162.9	1133.4	1056.3	961.3	891.7	1052.1	1501.6	1918.5	2266.7	2433.4	2501.0
25°	1094.3	1062.7	999.3	916.0	841.0	961.3	1490.0	1988.1	2382.8	2579.1	2631.8
27.5°	1014.1	986.7	932.9	872.7	819.9	892.8	1486.9	2079.9	2523.1	2756.3	2793.3
30°	936.0	910.7	868.5	833.7	811.5	852.7	1476.3	2178.1	2690.9	2960.0	3000.1
32.5°	861.1	835.8	809.4	804.1	805.2	837.9	1440.4	2275.1	2890.4	3255.5	3285.0
35°	796.7	767.2	756.6	769.3	792.5	812.6	1339.1	2355.3	3104.6	3577.3	3601.6
37.5°	735.5	706.0	704.9	735.5	760.8	773.5	1219.9	2434.5	3393.7	3904.5	3935.1
40°	679.6	650.0	660.6	697.5	717.6	723.9	1075.3	2554.8	3699.8	4249.5	4232.7
42.5°	632.1	601.5	607.8	655.3	673.3	690.1	942.4	2655.0	3994.2	4576.7	4571.4
45°	585.7	562.5	558.2	609.9	625.8	693.3	845.3	2732.1	4373.0	4993.5	5001.9
47.5°	540.3	522.4	523.4	545.6	584.6	709.1	763.0	2782.7	4922.8	5654.1	5507.4
50°	499.1	485.4	497.0	471.7	558.2	689.1	692.3	2772.2	5537.0	6287.3	5992.8
52.5°	453.8	450.6	455.9	394.7	516.0	607.8	625.8	2631.8	5825.1	6719.9	6552.1
55°	407.3	406.3	364.1	315.5	431.6	485.4	536.1	2196.0	5815.6	6950.0	7153.6
57.5°	352.5	344.0	276.5	257.5	335.6	337.7	488.6	1438.3	5153.9	6399.1	6821.2
60°	267.0	260.7	202.6	208.9	234.3	216.3	389.4	716.5	3851.7	4985.1	5461.0
62.5°	184.7	176.2	150.9	161.5	150.9	123.5	238.5	354.6	2333.2	3147.9	3579.5
65°	135.1	125.6	103.4	88.6	70.7	70.7	90.8	136.1	903.3	1338.1	1613.5
67.5°	83.4	79.1	61.2	44.3	43.3	46.4	47.5	67.5	145.6	232.2	283.9
70°	53.8	49.6	41.2	28.5	26.4	27.4	28.5	31.7	36.9	40.1	48.5
72.5°	36.9	34.8	29.5	15.8	12.7	13.7	14.8	14.8	17.9	16.9	20.1
75°	26.4	24.3	21.1	7.4	4.2	5.3	6.3	5.3	6.3	4.2	5.3
77.5°	7.4	7.4	5.3	1.1	0.0	1.1	2.1	2.1	1.1	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2	1341.2
2.5°	1520.6	1544.9	1554.4	1540.7	1552.3	1533.3	1525.9	1497.4	1495.3	1490.0
5°	1725.4	1780.2	1812.9	1833.0	1809.8	1784.5	1746.5	1681.0	1661.0	1648.3
7.5°	1926.9	2012.4	2068.3	2094.7	2088.4	2036.7	1968.1	1858.3	1819.3	1800.3
10°	2102.1	2206.6	2274.1	2306.8	2293.1	2247.7	2149.6	2012.4	1960.7	1949.1
12.5°	2224.5	2320.5	2367.0	2395.4	2396.5	2378.6	2285.7	2147.5	2086.3	2071.5
15°	2301.5	2342.7	2343.7	2360.6	2390.2	2430.3	2387.0	2264.6	2199.2	2177.0
17.5°	2350.1	2304.7	2258.3	2262.5	2311.0	2417.6	2461.9	2368.0	2298.4	2274.1
20°	2384.9	2241.4	2154.8	2155.9	2205.5	2367.0	2513.6	2468.3	2396.5	2374.3
22.5°	2407.1	2185.5	2062.0	2058.8	2111.6	2306.8	2561.1	2587.5	2516.8	2491.5
25°	2452.4	2159.1	2006.1	2024.0	2070.4	2287.8	2625.5	2745.8	2680.4	2646.6
27.5°	2533.7	2185.5	2000.8	2041.9	2094.7	2343.7	2737.4	2956.8	2889.3	2851.3
30°	2674.0	2284.6	2082.0	2139.0	2202.3	2490.4	2925.2	3251.3	3154.2	3118.3
32.5°	2899.9	2490.4	2333.2	2455.6	2516.8	2731.0	3206.9	3581.6	3502.4	3430.7
35°	3211.2	2960.0	2942.1	3227.0	3212.2	3186.9	3553.1	3986.8	3867.5	3797.9
37.5°	3639.6	3715.6	3848.5	4131.4	4121.9	3928.7	4007.9	4369.8	4308.6	4218.9
40°	4174.6	4336.1	4561.9	4967.1	4840.5	4597.8	4566.1	4762.4	4712.8	4607.3
42.5°	4490.1	4768.7	5199.3	5563.3	5462.0	5037.8	5001.9	5286.9	5178.2	5063.2
45°	4636.8	5121.2	5965.4	6458.2	6151.1	5330.1	5316.4	5970.7	5909.5	5755.4
47.5°	4704.4	5476.8	6862.4	7608.4	7034.4	5586.6	5537.0	6962.6	6882.4	6700.9
50°	4779.3	5967.5	7943.0	8941.2	8101.3	5876.8	5912.6	7887.0	7853.3	7639.1
52.5°	4943.9	6486.7	9273.7	10465.0	9395.0	6331.6	6557.4	8758.7	8530.7	8283.8
55°	5190.8	7052.3	10658.2	12021.6	10715.1	6942.6	7254.9	9221.9	8582.5	8309.1
57.5°	4917.5	7193.7	11478.1	13108.5	11300.8	6944.7	6665.0	8418.9	7548.3	7283.4
60°	3902.4	6692.5	11162.6	12873.2	10801.7	6167.0	5103.3	6573.2	5718.5	5541.2
62.5°	2638.2	5612.9	9826.6	10887.2	9245.2	4851.0	3316.7	4274.9	3540.4	3393.7
65°	1445.7	4187.3	7939.8	8236.3	7235.9	3388.5	1706.4	1855.2	1413.0	1347.6
67.5°	398.9	2914.6	5841.9	5464.2	5076.9	2206.6	441.1	331.4	236.4	234.3
70°	100.3	1928.0	3500.3	3607.9	3113.0	1413.0	84.4	40.1	31.7	30.6
72.5°	42.2	829.4	1661.0	1909.0	1593.4	654.3	30.6	11.6	9.5	7.4
75°	5.3	66.5	141.4	214.2	146.7	70.7	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

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