

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: P639359

Luminaire Tested: GWS-SA5B-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639359
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-SA5B-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9605.7 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

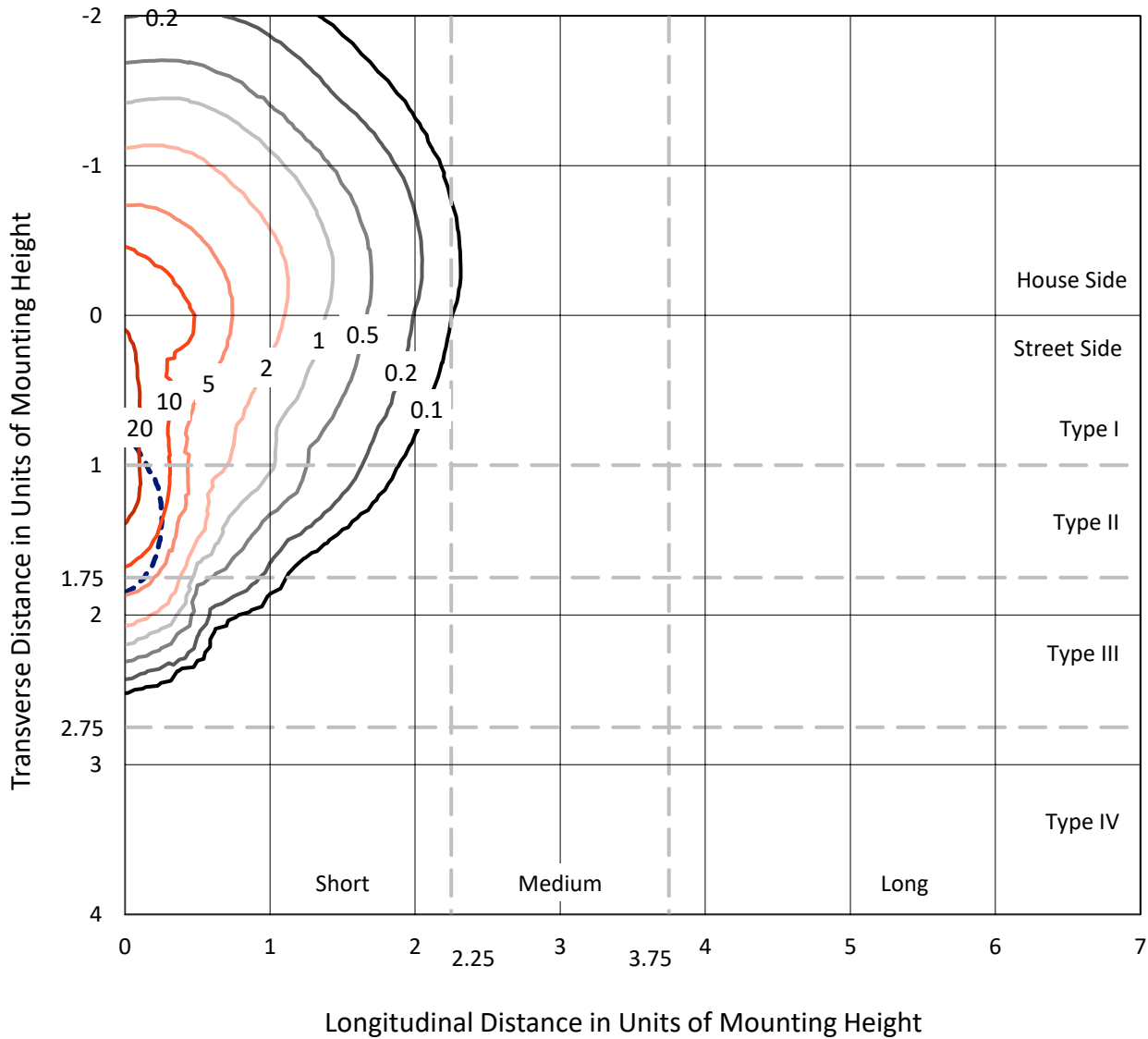
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

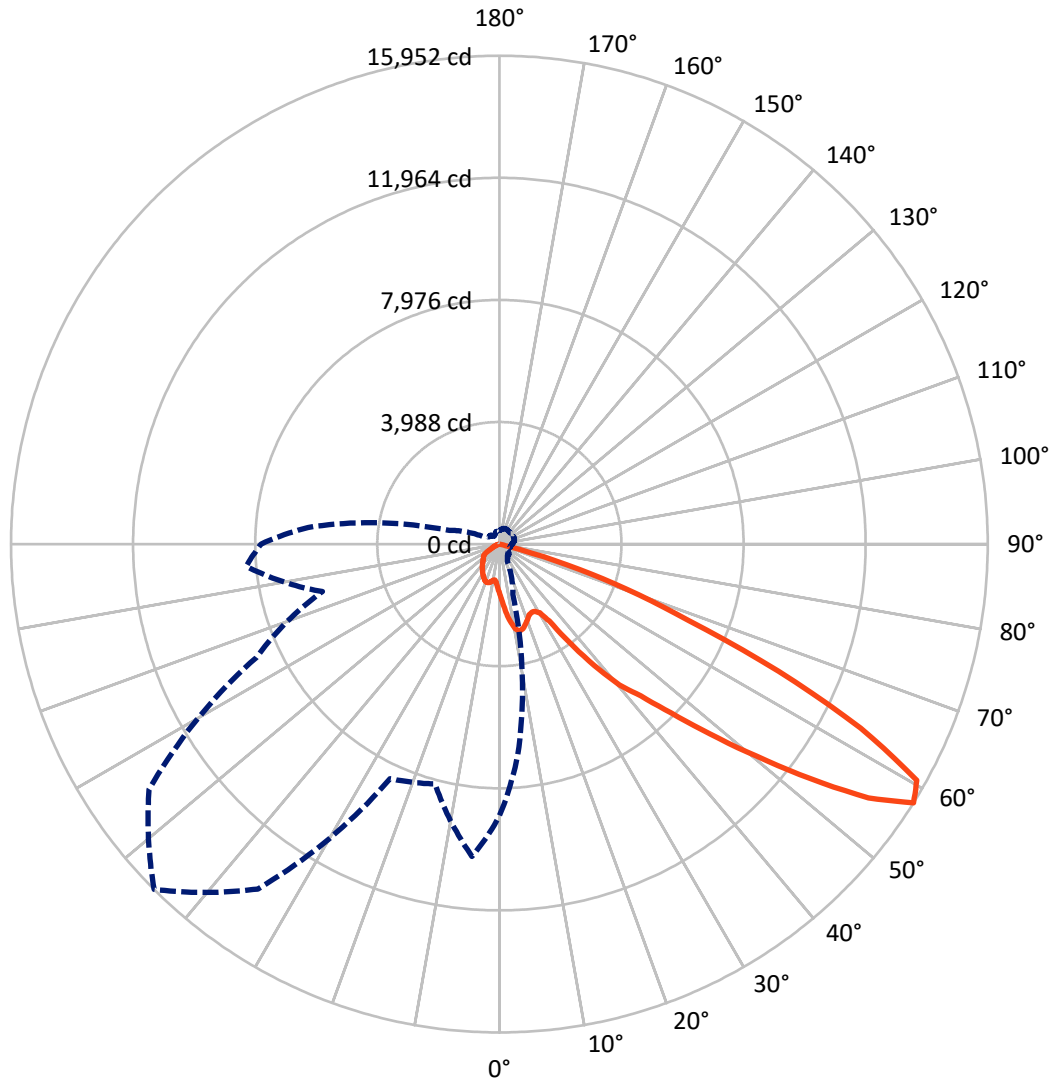
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.6 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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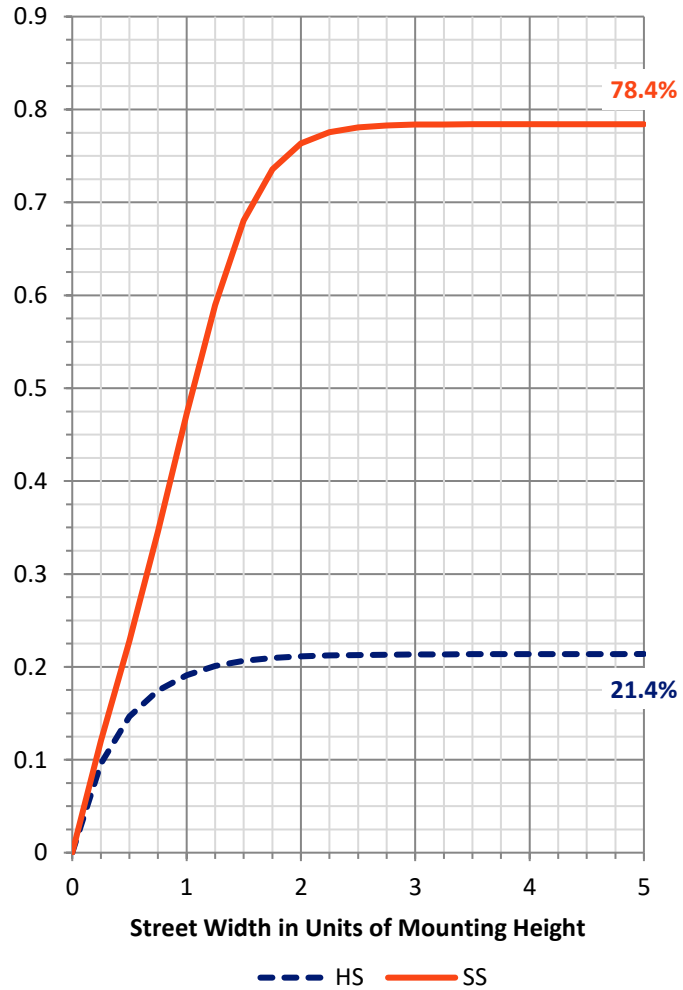
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.4	0.0	2069.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7536.3	0.0	7536.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	9605.7	0.0	9605.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.3	1.7
10°-20°	530.8	5.5
20°-30°	861.5	9.0
30°-40°	1322.1	13.8
40°-50°	2111.5	22.0
50°-60°	2956.6	30.8
60°-70°	1515.9	15.8
70°-80°	145.9	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°	9605.7	100.0
0°-180°	9605.7	100.0

Coefficient of Utilization



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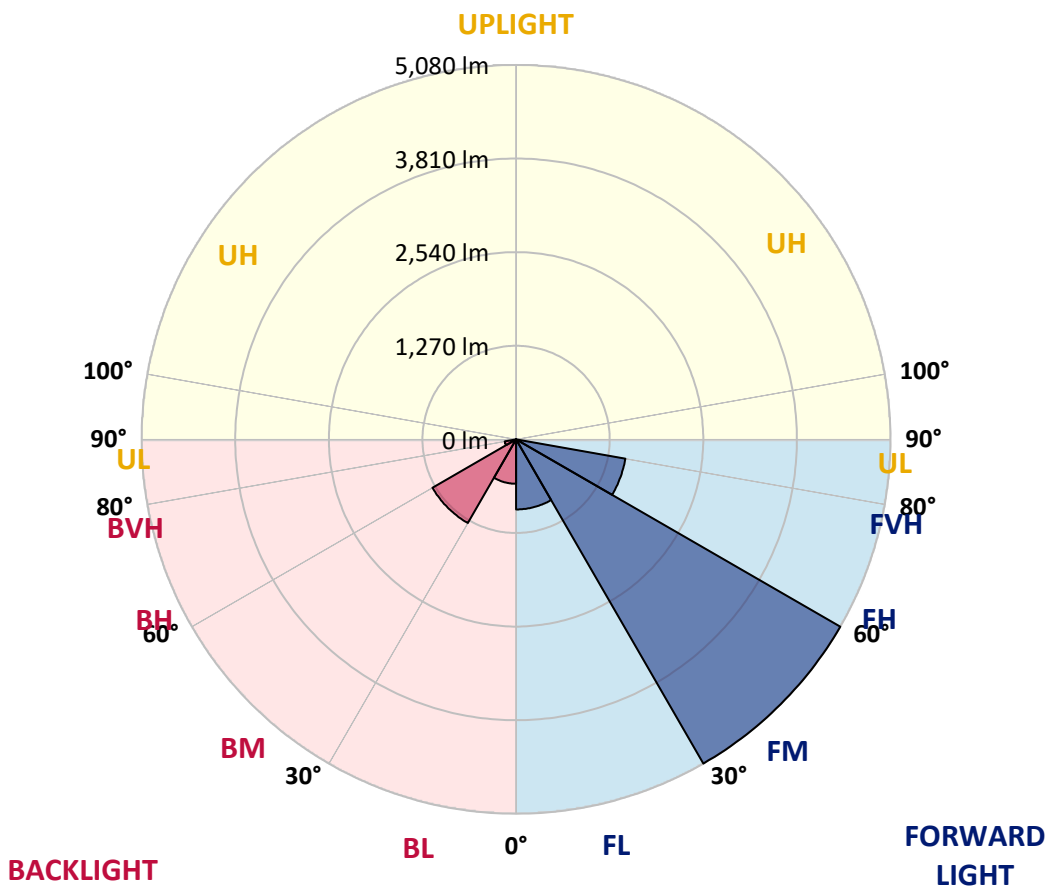
CATALOG NUMBER: GWS-SA5B-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	951.0	9.9			
FM (30°-60°)	5079.7	52.9			
FH (60°-80°)	1505.6	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	602.6	6.3	B2/1000		
BM (30°-60°)	1310.5	13.6	B2/2500		
BH (60°-80°)	156.3	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°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1813.2	1809.4	1796.5	1752.9	1725.9	1683.5	1652.7	1612.9	1569.2	1542.3	1515.3
5°	2005.8	1995.6	1960.9	1860.7	1783.7	1700.2	1633.4	1560.2	1481.9	1430.5	1383.0
7.5°	2190.8	2175.3	2129.1	1959.6	1842.8	1723.3	1628.3	1521.7	1411.3	1334.2	1275.2
10°	2371.8	2337.1	2264.0	2055.9	1898.0	1754.1	1642.4	1520.4	1390.7	1293.1	1227.6
12.5°	2520.8	2495.1	2394.9	2147.1	1944.2	1760.6	1623.2	1510.2	1422.8	1357.3	1297.0
15°	2649.2	2620.9	2525.9	2229.3	1984.0	1734.9	1542.3	1443.4	1457.5	1483.2	1431.8
17.5°	2767.3	2737.8	2635.1	2297.3	1999.4	1672.0	1429.3	1381.7	1460.1	1556.4	1537.1
20°	2889.3	2855.9	2730.1	2352.6	1994.3	1573.1	1315.0	1329.1	1439.5	1550.0	1560.2
22.5°	3031.9	2997.2	2850.8	2423.2	1990.4	1454.9	1216.1	1282.9	1401.0	1494.7	1512.7
25°	3220.6	3179.5	3019.0	2527.2	2000.7	1347.1	1145.5	1237.9	1335.5	1420.3	1430.5
27.5°	3469.8	3417.1	3212.9	2655.6	2022.5	1262.3	1114.6	1176.3	1252.0	1327.8	1336.8
30°	3794.7	3727.9	3435.1	2767.3	2012.3	1203.2	1094.1	1114.6	1159.6	1221.2	1222.5
32.5°	4174.8	4083.6	3684.2	2863.6	1923.7	1159.6	1065.8	1051.7	1062.0	1109.5	1118.5
35°	4621.6	4503.5	3959.0	2954.8	1761.8	1074.8	1014.5	967.0	963.1	986.2	1008.1
37.5°	5134.0	4992.8	4305.7	3071.7	1570.5	986.2	938.7	891.2	870.7	882.2	915.6
40°	5606.6	5449.9	4667.9	3212.9	1375.3	906.6	850.1	801.3	776.9	780.8	821.9
42.5°	6161.3	5999.5	5110.9	3397.9	1213.5	852.7	757.6	707.6	675.5	693.4	741.0
45°	7003.7	6820.1	5756.8	3558.4	1085.1	839.8	676.7	606.1	590.7	621.5	678.0
47.5°	8154.3	7929.6	6644.2	3656.0	976.0	851.4	620.2	523.9	527.8	562.5	619.0
50°	9295.9	9053.2	7670.2	3527.6	886.1	828.3	592.0	459.7	484.1	514.9	566.3
52.5°	10080.6	9764.7	8169.7	3156.4	803.9	741.0	589.4	399.4	445.6	455.9	499.5
55°	10111.4	9722.3	7914.2	2488.7	692.2	625.4	562.5	349.3	403.2	407.1	444.3
57.5°	8863.2	8511.3	6916.4	1709.2	615.1	458.4	448.2	305.6	331.3	363.4	386.5
60°	6743.1	6443.8	5172.5	783.3	467.4	291.5	306.9	263.3	247.8	295.4	318.5
62.5°	4129.8	3938.5	3102.5	346.7	297.9	155.4	186.2	209.3	186.2	204.2	223.4
65°	1639.9	1555.1	1177.6	147.7	122.0	78.3	84.8	122.0	131.0	143.8	161.8
67.5°	285.1	269.7	197.8	65.5	50.1	47.5	41.1	56.5	79.6	88.6	102.7
70°	37.2	36.0	32.1	27.0	25.7	23.1	18.0	36.0	53.9	56.5	65.5
72.5°	9.0	7.7	7.7	6.4	7.7	2.6	2.6	19.3	38.5	39.8	46.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	24.4	27.0	32.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1493.5	1467.8	1458.8	1445.9	1429.3	1434.4	1411.3	1403.6	1415.1	1430.5	1426.7
5°	1357.3	1329.1	1309.8	1280.3	1275.2	1263.6	1255.9	1245.6	1258.5	1276.4	1280.3
7.5°	1249.5	1225.1	1205.8	1196.8	1190.4	1185.3	1169.9	1162.2	1162.2	1169.9	1176.3
10°	1203.2	1185.3	1181.4	1184.0	1194.3	1193.0	1178.8	1168.6	1155.7	1149.3	1157.0
12.5°	1267.5	1237.9	1232.8	1234.1	1246.9	1245.6	1230.2	1217.4	1214.8	1217.4	1241.8
15°	1376.6	1331.7	1298.3	1291.9	1298.3	1295.7	1284.1	1276.4	1280.3	1317.5	1358.6
17.5°	1474.2	1404.9	1344.5	1321.4	1320.1	1316.3	1304.7	1302.1	1321.4	1390.7	1451.1
20°	1502.5	1434.4	1348.4	1318.8	1312.4	1308.5	1295.7	1299.6	1324.0	1407.4	1458.8
22.5°	1465.2	1399.7	1309.8	1280.3	1275.2	1273.9	1261.0	1266.2	1286.7	1359.9	1402.3
25°	1394.6	1339.4	1245.6	1219.9	1219.9	1217.4	1205.8	1208.4	1221.2	1285.4	1326.5
27.5°	1308.5	1255.9	1177.6	1151.9	1155.7	1159.6	1145.5	1141.6	1151.9	1212.2	1236.6
30°	1209.7	1172.4	1110.8	1087.7	1086.4	1101.8	1082.5	1077.4	1091.5	1139.0	1144.2
32.5°	1113.4	1095.4	1051.7	1033.7	1035.0	1037.6	1027.3	1027.3	1040.2	1065.8	1064.6
35°	1019.6	1008.1	1000.4	987.5	986.2	981.1	981.1	983.7	997.8	1006.8	990.1
37.5°	929.7	941.3	950.3	937.4	927.2	927.2	927.2	938.7	951.6	947.7	919.4
40°	850.1	874.5	902.8	888.6	864.2	862.9	868.1	887.3	906.6	883.5	857.8
42.5°	782.0	812.9	852.7	845.0	818.0	814.1	818.0	842.4	857.8	828.3	800.0
45°	715.3	753.8	801.3	801.3	771.8	767.9	769.2	801.3	810.3	775.6	739.7
47.5°	658.8	701.1	751.2	751.2	726.8	719.1	725.5	758.9	765.4	716.6	683.2
50°	604.8	651.1	706.3	702.4	685.7	679.3	690.9	726.8	719.1	665.2	630.5
52.5°	536.8	585.6	661.3	665.2	656.2	657.5	671.6	694.7	672.9	607.4	577.9
55°	475.1	525.2	601.0	621.5	621.5	620.2	626.7	644.6	626.7	548.3	512.4
57.5°	408.4	450.7	513.7	518.8	522.6	508.5	517.5	541.9	532.9	466.1	445.6
60°	335.2	371.1	407.1	410.9	394.2	364.7	381.4	409.6	416.1	366.0	342.9
62.5°	237.6	272.2	314.6	314.6	297.9	268.4	290.2	314.6	305.6	254.3	240.1
65°	177.2	209.3	241.4	255.5	241.4	220.9	237.6	255.5	241.4	199.0	178.5
67.5°	114.3	136.1	155.4	166.9	169.5	166.9	174.6	169.5	152.8	124.6	113.0
70°	69.3	80.9	91.2	101.4	109.2	113.0	116.9	105.3	88.6	73.2	69.3
72.5°	50.1	60.4	69.3	77.0	86.0	88.6	88.6	80.9	65.5	51.4	47.5
75°	34.7	43.7	51.4	56.5	64.2	66.8	66.8	60.4	48.8	37.2	33.4
77.5°	1.3	9.0	9.0	7.7	10.3	12.8	12.8	15.4	14.1	10.3	9.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1434.4	1480.6	1493.5	1541.0	1583.4	1625.7	1677.1	1707.9	1754.1	1786.2	1804.2
5°	1293.1	1331.7	1377.9	1448.5	1521.7	1602.6	1700.2	1785.0	1891.5	1969.9	1995.6
7.5°	1190.4	1240.5	1294.4	1383.0	1483.2	1591.1	1728.5	1867.1	2030.2	2136.8	2204.9
10°	1171.1	1222.5	1294.4	1381.7	1487.0	1610.3	1778.5	1958.3	2162.5	2292.2	2369.3
12.5°	1263.6	1318.8	1349.6	1389.4	1469.1	1606.5	1822.2	2050.8	2290.9	2432.2	2514.4
15°	1399.7	1448.5	1398.4	1348.4	1399.7	1565.4	1846.6	2127.8	2403.9	2567.0	2651.8
17.5°	1493.5	1497.3	1388.2	1281.6	1295.7	1490.9	1855.6	2204.9	2524.6	2695.4	2784.0
20°	1484.5	1453.7	1343.2	1225.1	1181.4	1394.6	1845.3	2272.9	2646.6	2825.1	2912.4
22.5°	1415.1	1379.2	1285.4	1169.9	1085.1	1280.3	1827.3	2334.6	2758.3	2961.2	3043.4
25°	1331.7	1293.1	1216.1	1114.6	1023.5	1169.9	1813.2	2419.3	2899.6	3138.5	3202.7
27.5°	1234.1	1200.7	1135.2	1062.0	997.8	1086.4	1809.4	2531.1	3070.4	3354.2	3399.1
30°	1139.0	1108.2	1056.9	1014.5	987.5	1037.6	1796.5	2650.5	3274.6	3602.0	3650.8
32.5°	1047.9	1017.0	984.9	978.5	979.8	1019.6	1752.9	2768.6	3517.3	3961.6	3997.5
35°	969.5	933.6	920.7	936.1	964.4	988.8	1629.6	2866.2	3778.0	4353.3	4382.8
37.5°	895.1	859.1	857.8	895.1	925.9	941.3	1484.5	2962.5	4129.8	4751.3	4788.6
40°	827.0	791.0	803.9	848.8	873.2	880.9	1308.5	3108.9	4502.2	5171.3	5150.7
42.5°	769.2	732.0	739.7	797.5	819.3	839.8	1146.7	3230.9	4860.5	5569.3	5562.9
45°	712.7	684.5	679.3	742.2	761.5	843.7	1028.6	3324.7	5321.5	6076.6	6086.9
47.5°	657.5	635.7	636.9	663.9	711.4	862.9	928.4	3386.3	5990.5	6880.5	6702.0
50°	607.4	590.7	604.8	574.0	679.3	838.5	842.4	3373.5	6737.9	7650.9	7292.7
52.5°	552.2	548.3	554.8	480.3	627.9	739.7	761.5	3202.7	7088.5	8177.4	7973.3
55°	495.7	494.4	443.0	384.0	525.2	590.7	652.3	2672.3	7076.9	8457.4	8705.2
57.5°	428.9	418.6	336.4	313.3	408.4	410.9	594.6	1750.3	6271.8	7787.1	8300.7
60°	324.9	317.2	246.6	254.3	285.1	263.3	473.9	871.9	4687.1	6066.3	6645.5
62.5°	224.7	214.5	183.6	196.5	183.6	150.2	290.2	431.5	2839.2	3830.6	4355.8
65°	164.4	152.8	125.8	107.9	86.0	86.0	110.4	165.7	1099.2	1628.3	1963.5
67.5°	101.4	96.3	74.5	53.9	52.7	56.5	57.8	82.2	177.2	282.5	345.4
70°	65.5	60.4	50.1	34.7	32.1	33.4	34.7	38.5	44.9	48.8	59.1
72.5°	44.9	42.4	36.0	19.3	15.4	16.7	18.0	18.0	21.8	20.5	24.4
75°	32.1	29.5	25.7	9.0	5.1	6.4	7.7	6.4	7.7	5.1	6.4
77.5°	9.0	9.0	6.4	1.3	0.0	1.3	2.6	2.6	1.3	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	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-SA5B-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2	1632.2
2.5°	1850.5	1880.0	1891.5	1874.9	1889.0	1865.9	1856.9	1822.2	1819.6	1813.2
5°	2099.6	2166.4	2206.2	2230.6	2202.3	2171.5	2125.3	2045.6	2021.2	2005.8
7.5°	2344.9	2448.9	2516.9	2549.0	2541.3	2478.4	2394.9	2261.4	2213.9	2190.8
10°	2558.0	2685.2	2767.3	2807.1	2790.5	2735.2	2615.8	2448.9	2385.9	2371.8
12.5°	2707.0	2823.8	2880.3	2915.0	2916.3	2894.5	2781.5	2613.2	2538.8	2520.8
15°	2800.7	2850.8	2852.1	2872.6	2908.6	2957.4	2904.7	2755.8	2676.2	2649.2
17.5°	2859.8	2804.6	2748.1	2753.2	2812.3	2942.0	2995.9	2881.6	2796.9	2767.3
20°	2902.2	2727.5	2622.2	2623.5	2683.9	2880.3	3058.8	3003.6	2916.3	2889.3
22.5°	2929.1	2659.5	2509.2	2505.4	2569.6	2807.1	3116.6	3148.7	3062.7	3031.9
25°	2984.4	2627.4	2441.2	2463.0	2519.5	2784.0	3195.0	3341.4	3261.7	3220.6
27.5°	3083.2	2659.5	2434.7	2484.8	2549.0	2852.1	3331.1	3598.2	3516.0	3469.8
30°	3254.0	2780.2	2533.6	2603.0	2680.0	3030.6	3559.7	3956.5	3838.3	3794.7
32.5°	3528.8	3030.6	2839.2	2988.2	3062.7	3323.4	3902.5	4358.4	4262.1	4174.8
35°	3907.7	3602.0	3580.2	3926.9	3908.9	3878.1	4323.7	4851.5	4706.4	4621.6
37.5°	4429.0	4521.5	4683.3	5027.4	5015.9	4780.9	4877.2	5317.7	5243.2	5134.0
40°	5080.1	5276.6	5551.4	6044.5	5890.4	5595.0	5556.5	5795.4	5735.0	5606.6
42.5°	5464.0	5803.1	6327.0	6770.0	6646.7	6130.5	6086.9	6433.6	6301.3	6161.3
45°	5642.5	6232.0	7259.3	7859.0	7485.3	6486.2	6469.5	7265.7	7191.2	7003.7
47.5°	5724.7	6664.7	8350.8	9258.7	8560.1	6798.3	6737.9	8472.8	8375.2	8154.3
50°	5815.9	7261.9	9665.8	10880.6	9858.4	7151.4	7195.1	9597.7	9556.6	9295.9
52.5°	6016.2	7893.7	11285.1	12734.9	11432.8	7704.9	7979.7	10658.4	10381.0	10080.6
55°	6316.7	8582.0	12969.9	14629.0	13039.2	8448.4	8828.5	11222.2	10444.0	10111.4
57.5°	5984.1	8754.0	13967.7	15951.7	13751.9	8451.0	8110.7	10244.9	9185.5	8863.2
60°	4748.8	8144.1	13583.7	15665.3	13144.5	7504.6	6210.1	7999.0	6958.8	6743.1
62.5°	3210.4	6830.4	11958.0	13248.5	11250.4	5903.2	4036.1	5202.1	4308.3	4129.8
65°	1759.3	5095.5	9661.9	10022.8	8805.4	4123.4	2076.5	2257.5	1719.5	1639.9
67.5°	485.4	3546.8	7109.0	6649.3	6178.0	2685.2	536.8	403.2	287.6	285.1
70°	122.0	2346.1	4259.5	4390.5	3788.2	1719.5	102.7	48.8	38.5	37.2
72.5°	51.4	1009.3	2021.2	2323.0	1939.1	796.2	37.2	14.1	11.6	9.0
75°	6.4	80.9	172.1	260.7	178.5	86.0	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)