

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: P639253

Luminaire Tested: GWS-SA5B-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9472.6 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

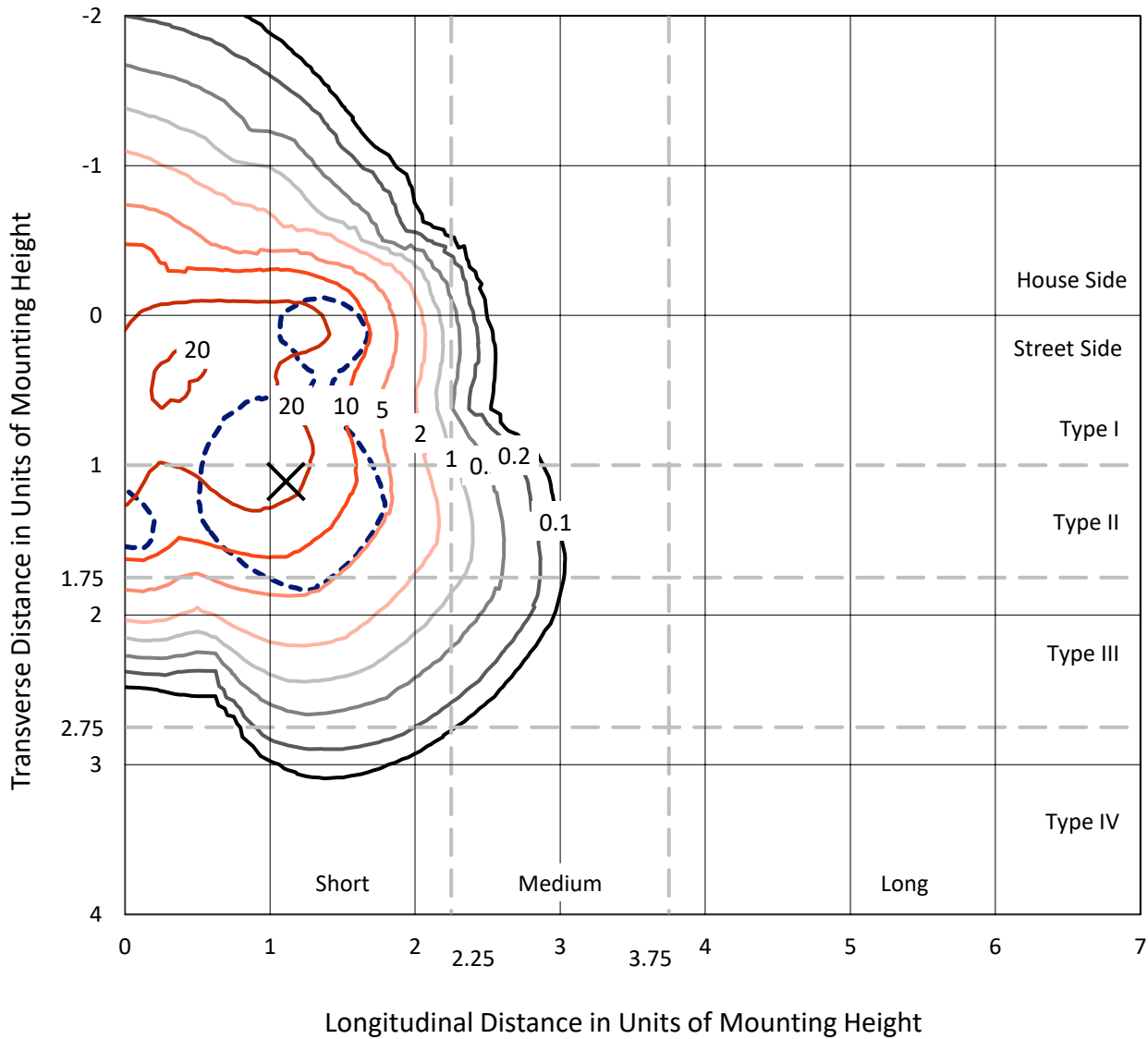
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

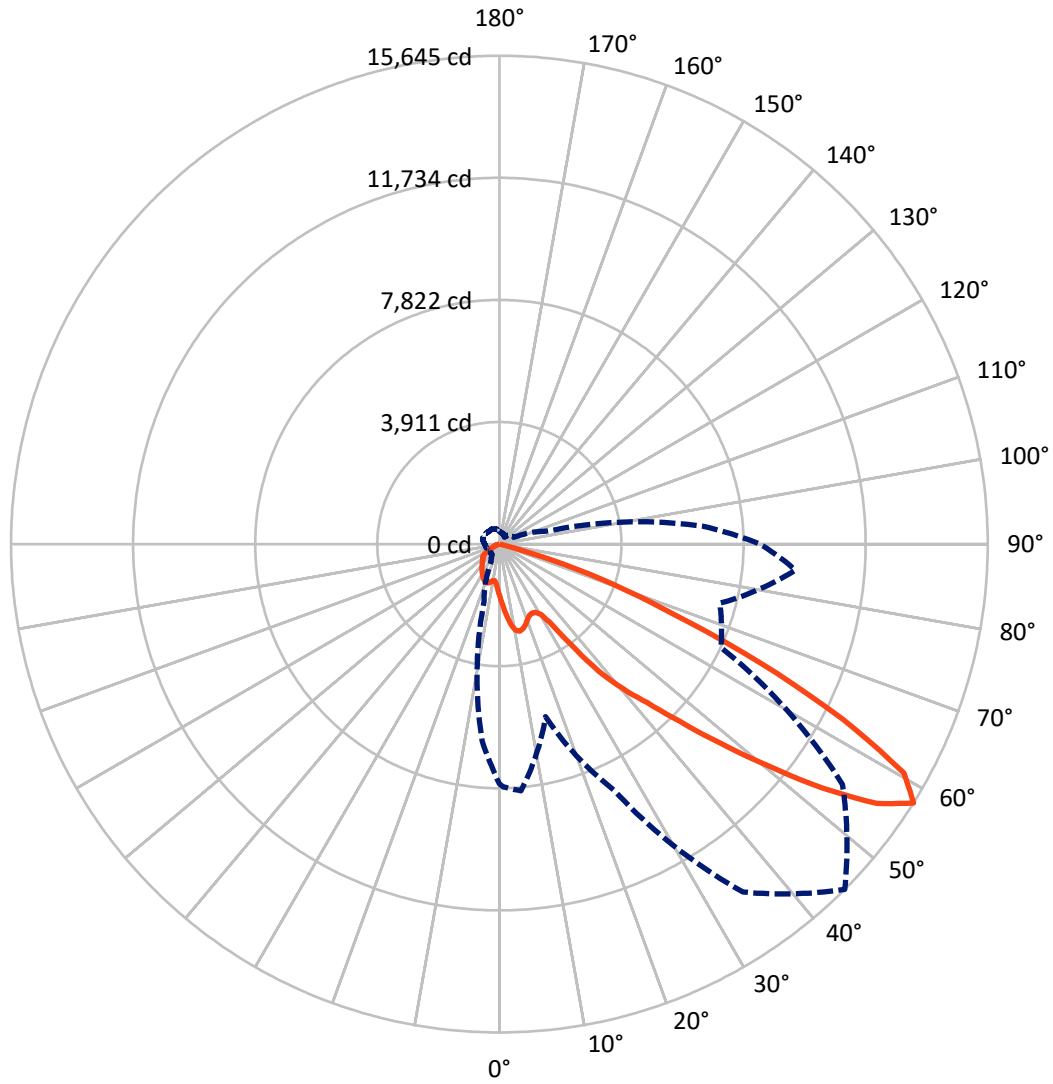
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.2	0.0	2121.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7351.4	0.0	7351.4
	% Fixture	77.6	0.0	77.6
Total	Lumens	9472.6	0.0	9472.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.8	1.7
10°-20°	529.8	5.6
20°-30°	860.7	9.1
30°-40°	1329.9	14.0
40°-50°	2132.5	22.5
50°-60°	2914.6	30.8
60°-70°	1411.6	14.9
70°-80°	129.3	1.4
80°-90°	0.4	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°	9472.6	100.0
0°-180°	9472.6	100.0

Coefficient of Utilization



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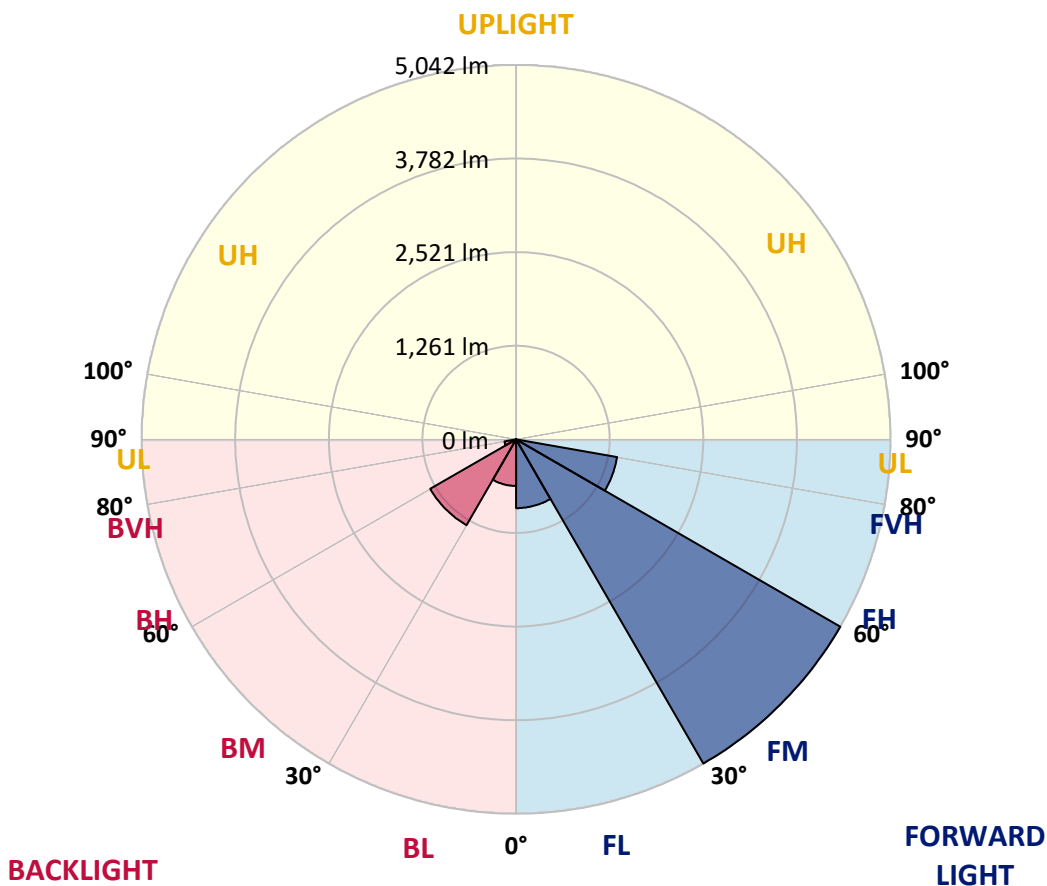
CATALOG NUMBER: GWS-SA5B-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.7	9.8			
FM (30°-60°)	5042.5	53.2			
FH (60°-80°)	1381.9	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	627.6	6.6	B2/1000		
BM (30°-60°)	1334.5	14.1	B2/2500		
BH (60°-80°)	159.0	1.7	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°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1803.7	1815.1	1834.2	1874.9	1909.3	1932.2	1942.4	1939.9	1925.8	1915.7	1895.3
5°	1997.1	1997.1	2034.0	2127.0	2198.2	2242.8	2265.7	2251.7	2223.7	2179.1	2110.4
7.5°	2166.4	2172.8	2235.2	2367.5	2475.7	2539.4	2576.3	2568.6	2519.0	2433.7	2296.3
10°	2298.8	2306.4	2389.2	2550.8	2678.1	2743.0	2797.8	2802.9	2748.1	2634.8	2477.0
12.5°	2427.4	2435.0	2521.6	2676.8	2788.9	2815.6	2864.0	2883.0	2869.0	2788.9	2624.7
15°	2566.1	2583.9	2657.7	2773.6	2820.7	2788.9	2820.7	2855.0	2902.1	2894.5	2746.8
17.5°	2702.3	2715.0	2790.1	2830.9	2778.7	2695.9	2711.2	2751.9	2858.9	2963.2	2867.8
20°	2828.3	2846.1	2908.5	2855.0	2697.2	2568.6	2569.9	2623.4	2786.3	3005.2	2991.2
22.5°	2960.7	2987.4	3032.0	2881.8	2622.1	2468.1	2474.5	2522.8	2729.0	3044.7	3131.3
25°	3133.8	3159.3	3188.5	2948.0	2597.9	2418.4	2442.6	2487.2	2729.0	3112.2	3304.4
27.5°	3368.0	3385.8	3387.1	3071.4	2639.9	2426.1	2477.0	2527.9	2810.5	3247.1	3536.0
30°	3662.0	3690.0	3653.1	3263.6	2771.0	2527.9	2603.0	2666.7	2986.1	3474.9	3877.2
32.5°	4019.7	4059.2	4009.5	3548.8	3044.7	2879.2	3015.4	3052.3	3266.2	3804.6	4264.1
35°	4439.8	4472.9	4419.4	3943.3	3683.7	3714.2	3961.2	3914.1	3828.8	4210.6	4716.0
37.5°	4900.5	4931.1	4828.0	4541.6	4628.1	4760.5	5155.1	4993.5	4718.5	4733.8	5206.0
40°	5323.1	5356.2	5194.6	5192.0	5370.2	5612.1	6088.1	5865.4	5491.2	5418.6	5665.5
42.5°	5761.0	5783.9	5637.5	5538.2	5943.0	6440.7	6944.8	6644.4	6002.8	5923.9	6240.9
45°	6386.0	6434.3	6173.4	5708.8	6458.5	7394.1	8096.7	7509.9	6351.6	6288.0	7121.7
47.5°	7305.0	7340.6	6808.6	5815.7	6938.4	8581.7	9536.3	8632.6	6658.4	6513.3	8325.8
50°	8064.9	8089.1	7392.8	5932.8	7448.8	9862.2	11177.1	9964.0	7003.3	6886.2	9449.8
52.5°	8625.0	8716.6	8160.4	6173.4	8119.6	11368.0	12993.4	11541.1	7541.7	7606.7	10381.5
55°	8740.8	8865.5	8684.8	6321.1	8710.2	12901.8	14671.1	12952.7	8078.9	8152.7	10694.6
57.5°	7681.8	7781.0	7931.2	5725.4	8696.2	13604.4	15644.8	13421.1	7834.5	7311.4	9522.3
60°	5754.6	5823.4	6095.8	4376.1	7997.4	12983.3	14886.2	12624.3	6850.6	5579.0	7255.3
62.5°	3412.6	3443.1	3788.1	2834.7	6638.0	11180.9	12345.5	10893.2	5413.5	3752.4	4443.6
65°	1309.8	1297.1	1560.5	1398.9	4881.4	8906.3	9182.5	8304.2	3714.2	1719.6	1694.2
67.5°	202.4	193.5	260.9	413.7	3520.8	6172.1	6058.9	5985.0	2326.8	401.0	350.0
70°	45.8	45.8	56.0	122.2	2151.1	3626.4	3881.0	3700.2	1489.3	85.3	45.8
72.5°	21.6	21.6	26.7	52.2	779.0	1494.3	1741.3	1714.6	483.7	28.0	16.5
75°	7.6	8.9	8.9	11.5	47.1	77.6	178.2	127.3	30.5	0.0	0.0
77.5°	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	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°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1850.7	1841.8	1808.7	1764.2	1720.9	1682.7	1643.3	1596.2	1561.8	1522.3	1509.6
5°	2057.0	2000.9	1910.6	1816.4	1729.8	1656.0	1584.7	1508.3	1452.3	1396.3	1377.2
7.5°	2231.3	2148.6	2002.2	1860.9	1742.6	1638.2	1535.1	1430.7	1349.2	1283.1	1262.7
10°	2387.9	2292.4	2096.4	1922.0	1773.1	1652.2	1527.4	1396.3	1290.7	1211.8	1192.7
12.5°	2522.8	2412.1	2176.6	1967.9	1785.8	1647.1	1526.2	1421.8	1326.3	1236.0	1211.8
15°	2636.1	2513.9	2244.1	1998.4	1766.7	1583.4	1477.8	1461.3	1453.6	1354.3	1307.2
17.5°	2746.8	2609.4	2298.8	2012.4	1713.3	1471.4	1395.1	1470.2	1550.4	1485.4	1425.6
20°	2862.7	2706.1	2354.8	2014.9	1624.2	1345.4	1332.7	1451.1	1552.9	1532.5	1476.5
22.5°	2998.9	2827.0	2424.8	2013.7	1512.2	1238.5	1286.9	1414.2	1496.9	1495.6	1451.1
25°	3196.2	2979.8	2519.0	2021.3	1390.0	1155.8	1236.0	1351.8	1419.2	1416.7	1379.8
27.5°	3407.5	3161.8	2641.2	2040.4	1285.6	1107.4	1176.1	1266.5	1325.1	1322.5	1290.7
30°	3704.0	3371.8	2758.3	2041.7	1210.5	1081.9	1109.9	1172.3	1228.3	1222.0	1197.8
32.5°	4064.3	3608.6	2856.3	1969.1	1163.4	1057.8	1041.2	1073.0	1116.3	1107.4	1101.0
35°	4499.6	3889.9	2940.3	1810.0	1090.8	1009.4	964.8	971.2	1001.7	1006.8	1004.3
37.5°	4996.0	4224.6	3044.7	1600.0	992.8	939.4	879.6	874.5	892.3	908.8	921.6
40°	5486.1	4601.4	3186.0	1387.4	903.7	850.3	793.0	780.3	787.9	817.2	843.9
42.5°	6037.2	5038.0	3338.7	1205.4	842.6	752.3	697.5	673.3	695.0	742.1	773.9
45°	6831.5	5650.3	3487.7	1060.3	817.2	665.7	591.9	589.3	613.5	674.6	710.3
47.5°	7946.5	6442.0	3585.7	947.0	815.9	598.2	510.4	525.7	553.7	613.5	654.3
50°	9033.5	7433.5	3477.5	860.5	789.2	553.7	449.3	479.9	507.9	560.1	602.1
52.5°	9689.1	7966.9	3056.2	779.0	706.4	533.3	389.5	443.0	448.0	495.1	539.7
55°	9620.3	7621.9	2340.8	653.0	584.2	504.1	327.1	399.7	402.2	437.9	476.1
57.5°	8350.0	6543.8	1607.6	529.5	439.1	416.2	269.8	337.3	361.5	383.1	411.1
60°	6223.1	4774.5	716.6	430.2	278.8	281.3	230.4	254.6	291.5	316.9	341.1
62.5°	3667.1	2746.8	291.5	258.4	154.0	176.9	185.8	185.8	208.8	227.8	243.1
65°	1386.2	961.0	118.4	129.8	80.2	82.7	109.5	134.9	152.7	169.3	189.7
67.5°	243.1	168.0	61.1	48.4	47.1	42.0	56.0	87.8	98.0	110.7	119.6
70°	40.7	34.4	25.5	24.2	21.6	22.9	36.9	62.4	68.7	72.6	76.4
72.5°	11.5	10.2	7.6	6.4	5.1	6.4	22.9	48.4	50.9	53.5	57.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	34.4	36.9	38.2	42.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	10.2	12.7	10.2
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°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1502.0	1476.5	1462.5	1454.9	1454.9	1444.7	1433.2	1429.4	1446.0	1446.0	1474.0
5°	1353.1	1332.7	1309.8	1295.8	1274.1	1278.0	1265.2	1264.0	1280.5	1288.1	1317.4
7.5°	1250.0	1224.5	1210.5	1201.6	1190.1	1185.0	1173.6	1169.8	1178.7	1191.4	1219.4
10°	1181.2	1177.4	1176.1	1182.5	1182.5	1176.1	1165.9	1159.6	1162.1	1186.3	1218.1
12.5°	1199.0	1206.7	1209.2	1219.4	1224.5	1219.4	1211.8	1214.3	1230.9	1275.4	1322.5
15°	1276.7	1270.3	1267.8	1272.9	1276.7	1271.6	1269.0	1288.1	1345.4	1409.1	1462.5
17.5°	1359.4	1318.7	1300.9	1300.9	1303.4	1300.9	1303.4	1340.3	1433.2	1496.9	1536.4
20°	1401.4	1326.3	1298.3	1292.0	1297.1	1298.3	1307.2	1349.2	1451.1	1495.6	1504.5
22.5°	1388.7	1294.5	1262.7	1257.6	1262.7	1267.8	1276.7	1312.3	1407.8	1430.7	1426.9
25°	1325.1	1232.1	1206.7	1206.7	1218.1	1216.9	1220.7	1246.1	1325.1	1339.1	1332.7
27.5°	1244.9	1157.0	1135.4	1148.1	1158.3	1155.8	1157.0	1178.7	1237.2	1241.0	1234.7
30°	1163.4	1087.0	1066.7	1081.9	1095.9	1093.4	1094.7	1116.3	1153.2	1149.4	1140.5
32.5°	1080.7	1024.7	1009.4	1018.3	1039.9	1037.4	1042.5	1065.4	1079.4	1062.8	1052.7
35°	1004.3	975.0	963.6	968.7	985.2	989.0	997.9	1013.2	1013.2	992.8	975.0
37.5°	933.0	929.2	921.6	915.2	930.5	941.9	954.7	972.5	947.0	917.7	901.2
40°	866.8	883.4	873.2	856.6	865.6	882.1	907.6	921.6	891.0	861.7	833.7
42.5°	805.7	833.7	829.9	809.5	817.2	832.5	861.7	873.2	837.5	804.5	777.7
45°	747.2	786.6	789.2	763.7	771.4	786.6	821.0	824.8	779.0	743.4	724.3
47.5°	696.3	739.5	740.8	721.7	724.3	745.9	777.7	779.0	726.8	693.7	669.5
50°	647.9	697.5	701.4	684.8	687.3	712.8	739.5	734.4	678.4	644.1	622.4
52.5°	589.3	656.8	665.7	658.1	668.3	688.6	705.2	687.3	622.4	588.1	569.0
55°	525.7	613.5	632.6	627.5	639.0	655.5	659.3	647.9	566.4	532.1	514.2
57.5°	451.9	505.3	538.4	528.2	537.2	553.7	565.2	556.2	495.1	468.4	453.1
60°	374.2	409.9	417.5	401.0	393.3	422.6	449.3	437.9	385.7	369.1	351.3
62.5°	273.7	314.4	319.5	297.9	288.9	320.8	343.7	332.2	274.9	257.1	243.1
65°	218.9	257.1	267.3	246.9	241.8	266.0	280.0	252.0	211.3	192.2	176.9
67.5°	143.8	174.4	201.1	199.8	189.7	197.3	187.1	164.2	134.9	124.7	114.6
70°	89.1	106.9	123.5	129.8	128.6	126.0	112.0	95.5	86.6	82.7	77.6
72.5°	68.7	86.6	99.3	103.1	104.4	100.6	89.1	73.8	64.9	59.8	56.0
75°	50.9	64.9	75.1	80.2	82.7	80.2	68.7	58.6	49.6	45.8	42.0
77.5°	17.8	21.6	26.7	29.3	28.0	26.7	24.2	24.2	19.1	17.8	15.3
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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CATALOG NUMBER: GWS-SA5B-740-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9	1664.9
2.5°	1505.8	1528.7	1570.7	1608.9	1649.6	1691.6	1737.5	1784.6	1806.2	1803.7
5°	1362.0	1411.6	1480.3	1555.4	1639.5	1729.8	1830.4	1933.5	1978.0	1997.1
7.5°	1271.6	1341.6	1432.0	1527.4	1638.2	1766.7	1918.2	2079.9	2144.8	2166.4
10°	1283.1	1364.5	1439.6	1532.5	1650.9	1817.7	2006.0	2198.2	2274.6	2298.8
12.5°	1376.0	1393.8	1414.2	1490.5	1639.5	1855.8	2086.2	2315.3	2403.2	2427.4
15°	1460.0	1377.2	1339.1	1409.1	1598.7	1882.6	2167.7	2441.4	2538.1	2566.1
17.5°	1463.8	1339.1	1253.8	1308.5	1532.5	1894.0	2247.9	2569.9	2675.6	2702.3
20°	1416.7	1297.1	1187.6	1188.9	1442.2	1891.5	2314.1	2685.8	2804.1	2828.3
22.5°	1348.0	1247.4	1134.1	1094.7	1345.4	1886.4	2386.6	2809.2	2937.8	2960.7
25°	1271.6	1183.8	1083.2	1023.4	1248.7	1891.5	2488.5	2970.9	3112.2	3133.8
27.5°	1188.9	1113.8	1043.8	995.4	1167.2	1910.6	2610.7	3177.1	3345.1	3368.0
30°	1102.3	1046.3	1018.3	989.0	1116.3	1915.7	2743.0	3417.7	3630.2	3662.0
32.5°	1017.0	986.5	987.7	992.8	1067.9	1880.0	2864.0	3685.0	3968.8	4019.7
35°	938.1	929.2	954.7	980.1	997.9	1788.4	2969.6	4000.6	4387.6	4439.8
37.5°	870.6	878.3	910.1	935.6	921.6	1658.5	3109.6	4395.2	4856.0	4900.5
40°	805.7	824.8	861.7	873.2	863.0	1507.1	3277.6	4775.8	5262.0	5323.1
42.5°	745.9	759.9	812.1	814.6	846.5	1353.1	3439.3	5185.7	5729.2	5761.0
45°	697.5	695.0	748.4	765.0	868.1	1182.5	3597.1	5731.7	6340.2	6386.0
47.5°	650.4	647.9	660.6	735.7	877.0	1024.7	3753.7	6531.1	7226.1	7305.0
50°	605.9	609.7	570.2	721.7	828.6	903.7	3825.0	7270.6	8031.8	8064.9
52.5°	566.4	552.4	483.7	675.9	725.5	789.2	3622.6	7606.7	8530.8	8625.0
55°	510.4	432.8	398.4	548.6	572.8	688.6	2967.1	7411.9	8574.0	8740.8
57.5°	436.6	339.9	338.6	404.8	404.8	639.0	1900.4	6332.5	7389.0	7681.8
60°	336.0	263.5	280.0	281.3	259.7	465.9	1066.7	4587.4	5463.1	5754.6
62.5°	239.3	201.1	211.3	168.0	148.9	232.9	511.7	2641.2	3371.8	3412.6
65°	160.4	136.2	110.7	92.9	91.6	99.3	211.3	954.7	1160.9	1309.8
67.5°	105.6	82.7	58.6	58.6	66.2	66.2	80.2	157.8	221.5	202.4
70°	68.7	57.3	36.9	35.6	43.3	43.3	40.7	43.3	45.8	45.8
72.5°	50.9	43.3	21.6	19.1	24.2	25.5	22.9	21.6	21.6	21.6
75°	38.2	30.5	12.7	8.9	11.5	15.3	12.7	8.9	8.9	7.6
77.5°	15.3	11.5	5.1	3.8	6.4	8.9	7.6	3.8	2.5	2.5
80°	1.3	2.5	2.5	2.5	3.8	5.1	6.4	2.5	1.3	1.3
82.5°	0.0	1.3	1.3	1.3	2.5	3.8	5.1	2.5	1.3	1.3
85°	0.0	0.0	0.0	0.0	2.5	3.8	2.5	1.3	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.3	3.8	2.5	1.3	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)