

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: P639748

Luminaire Tested: GWS-SA5C-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639748  
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-SA5C-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**

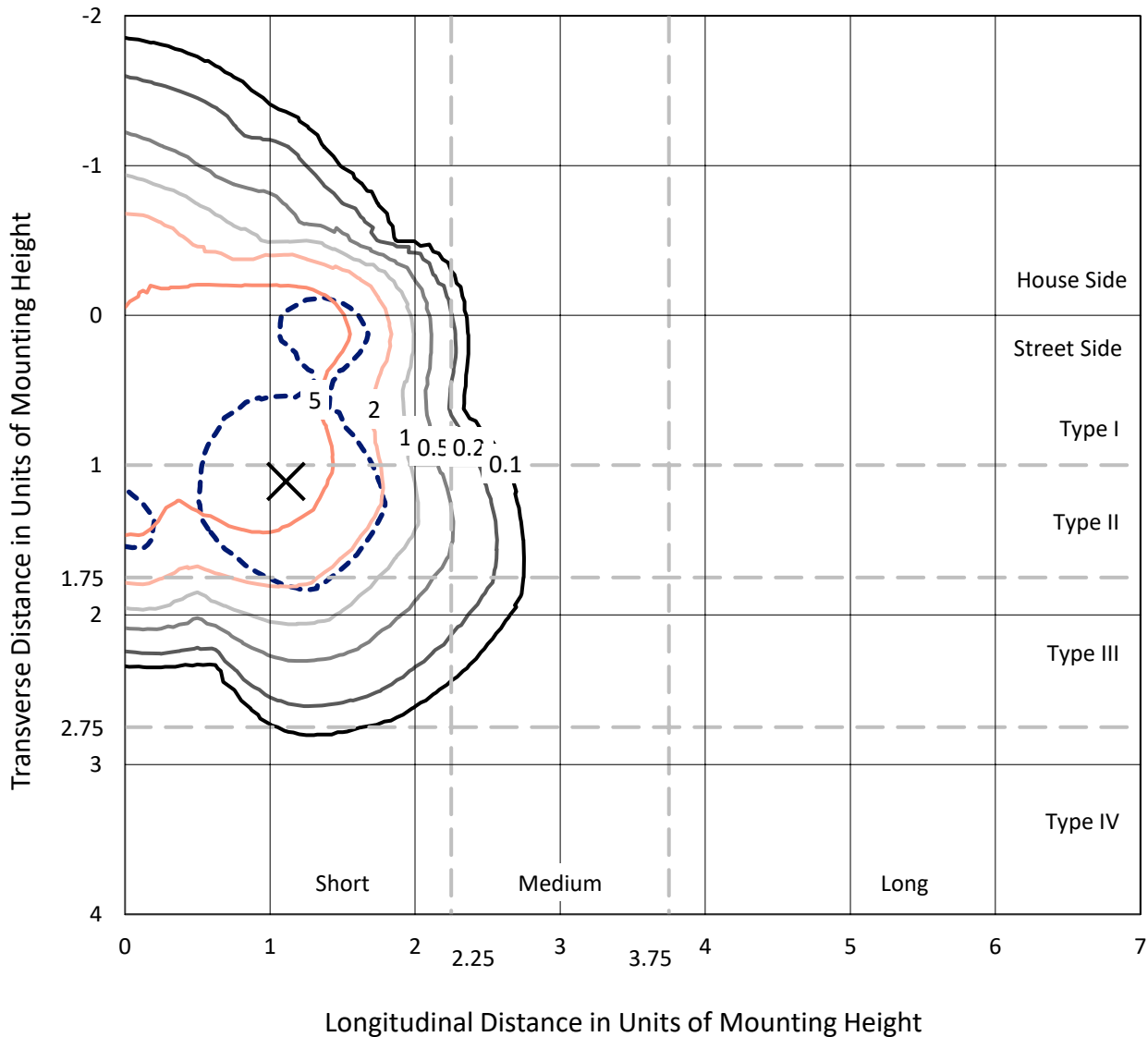
Lumens per Lamp: N/A  
Luminaire Lumens: 12703.9 lumens  
Efficiency: N/A  
Efficacy: 80.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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



REPORT NUMBER: P639748  
 CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

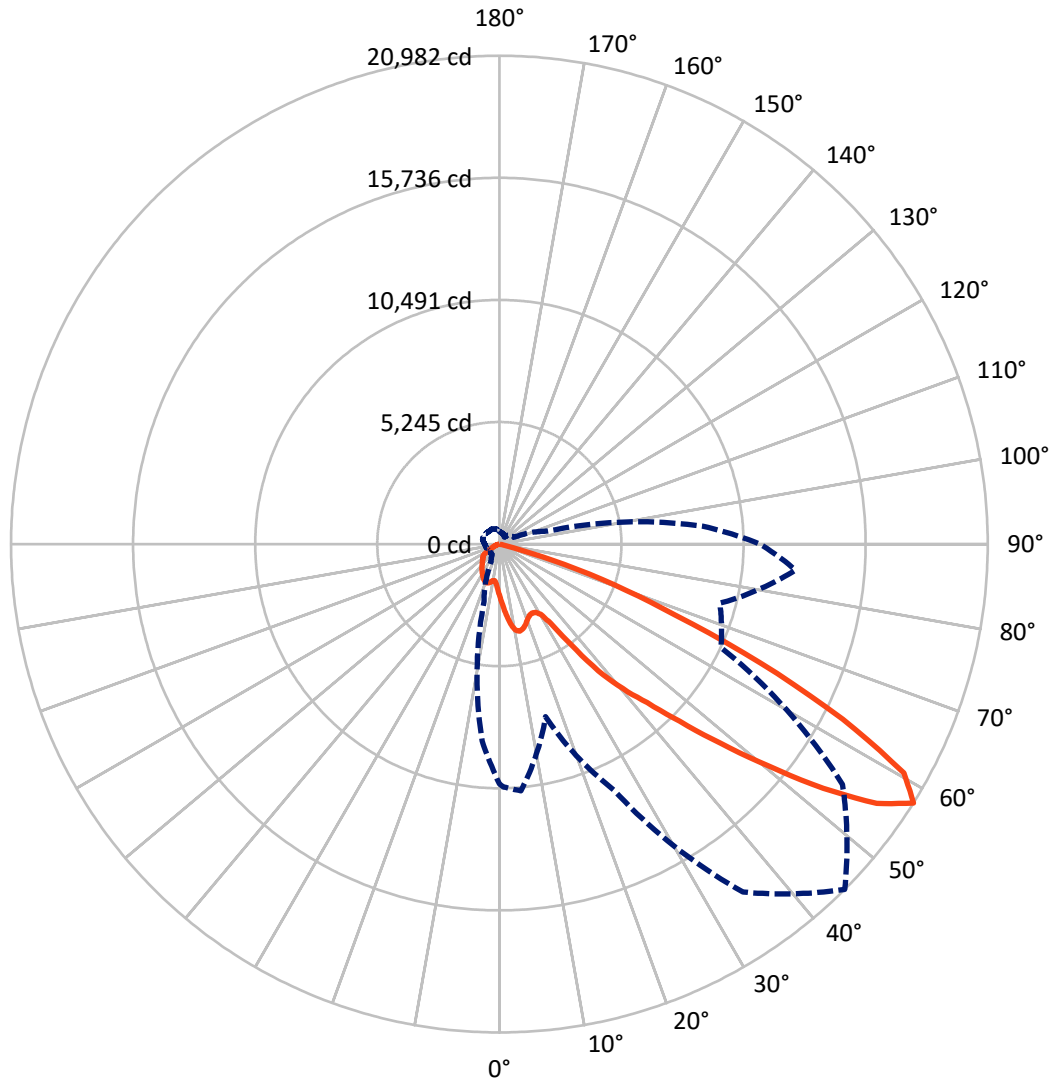
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P639748  
CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P639748

CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

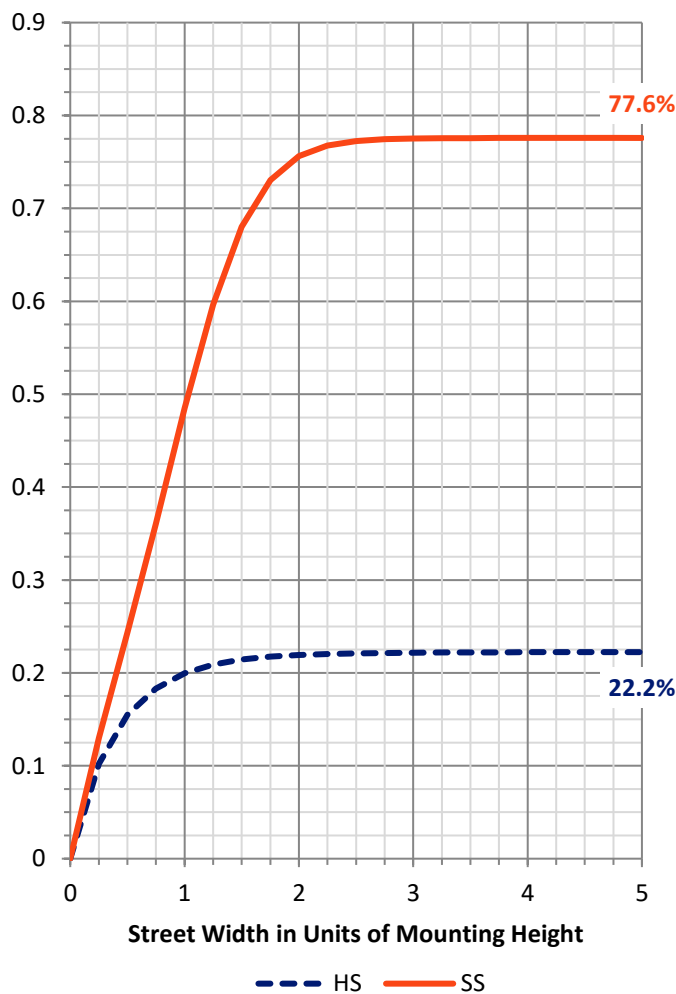
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2844.7	0.0	2844.7
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	9859.2	0.0	9859.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12703.9	0.0	12703.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.7	1.7
10°-20°	710.6	5.6
20°-30°	1154.3	9.1
30°-40°	1783.6	14.0
40°-50°	2860.0	22.5
50°-60°	3908.8	30.8
60°-70°	1893.1	14.9
70°-80°	173.3	1.4
80°-90°	0.5	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°	12703.9	100.0
0°-180°	12703.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P639748

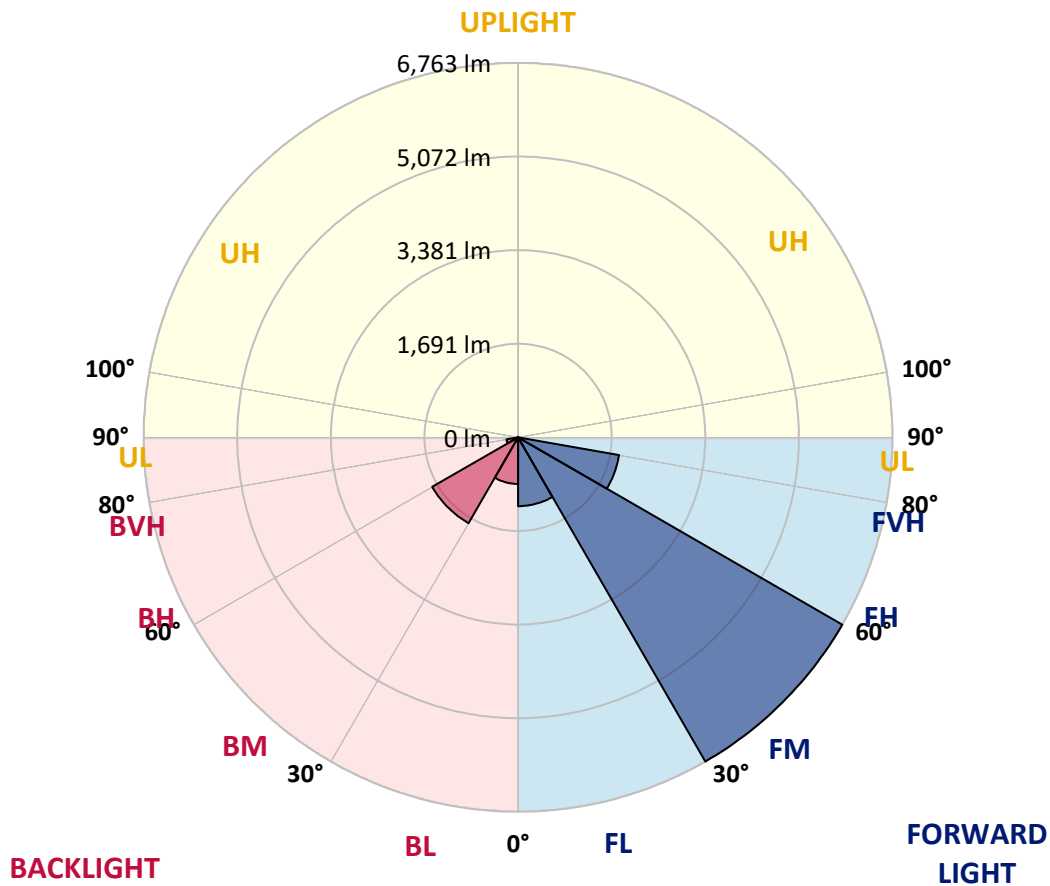
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.8	9.8			
FM (30°-60°)	6762.6	53.2			
FH (60°-80°)	1853.3	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	841.7	6.6	B2/1000		
BM (30°-60°)	1789.8	14.1	B2/2500		
BH (60°-80°)	213.2	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-G2**

Type III Short





REPORT NUMBER: P639748

CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8
2.5°	2418.9	2434.3	2459.9	2514.5	2560.6	2591.3	2605.0	2601.6	2582.8	2569.1	2541.8
5°	2678.4	2678.4	2727.9	2852.5	2948.1	3007.9	3038.6	3019.8	2982.3	2922.5	2830.3
7.5°	2905.4	2914.0	2997.6	3175.1	3320.3	3405.6	3455.1	3444.9	3378.3	3263.9	3079.6
10°	3083.0	3093.2	3204.2	3421.0	3591.7	3678.7	3752.1	3759.0	3685.6	3533.6	3322.0
12.5°	3255.4	3265.6	3381.7	3590.0	3740.2	3776.0	3840.9	3866.5	3847.7	3740.2	3520.0
15°	3441.5	3465.4	3564.4	3719.7	3782.9	3740.2	3782.9	3829.0	3892.1	3881.9	3683.9
17.5°	3624.1	3641.2	3741.9	3796.5	3726.5	3615.6	3636.1	3690.7	3834.1	3974.1	3846.0
20°	3793.1	3817.0	3900.7	3829.0	3617.3	3444.9	3446.6	3518.3	3736.8	4030.4	4011.6
22.5°	3970.6	4006.5	4066.2	3864.8	3516.6	3310.0	3318.5	3383.4	3660.0	4083.3	4199.4
25°	4202.8	4236.9	4276.2	3953.6	3484.1	3243.4	3275.9	3335.6	3660.0	4173.8	4431.6
27.5°	4516.9	4540.8	4542.5	4119.2	3540.5	3253.7	3322.0	3390.2	3769.2	4354.7	4742.2
30°	4911.2	4948.8	4899.3	4376.9	3716.3	3390.2	3491.0	3576.3	4004.8	4660.3	5199.7
32.5°	5390.9	5443.8	5377.3	4759.3	4083.3	3861.4	4044.0	4093.6	4380.3	5102.4	5718.7
35°	5954.3	5998.6	5926.9	5288.5	4940.3	4981.2	5312.4	5249.2	5134.9	5647.0	6324.7
37.5°	6572.2	6613.2	6474.9	6090.8	6206.9	6384.4	6913.6	6696.8	6328.1	6348.6	6981.9
40°	7139.0	7183.3	6966.6	6963.1	7202.1	7526.5	8164.9	7866.2	7364.3	7267.0	7598.2
42.5°	7726.2	7756.9	7560.6	7427.5	7970.3	8637.8	9313.8	8910.9	8050.5	7944.7	8369.8
45°	8564.4	8629.2	8279.3	7656.2	8661.7	9916.4	10858.7	10071.7	8518.3	8432.9	9551.1
47.5°	9796.9	9844.7	9131.1	7799.6	9305.2	11509.1	12789.4	11577.3	8929.7	8735.1	11165.9
50°	10816.0	10848.4	9914.7	7956.7	9989.8	13226.4	14989.8	13362.9	9392.3	9235.2	12673.3
52.5°	11567.1	11690.0	10944.0	8279.3	10889.4	15245.8	17425.8	15478.0	10114.4	10201.4	13922.9
55°	11722.4	11889.7	11647.3	8477.3	11681.5	17302.9	19675.7	17371.1	10834.8	10933.8	14342.8
57.5°	10302.2	10435.3	10636.7	7678.4	11662.7	18245.2	20981.6	17999.3	10507.0	9805.4	12770.6
60°	7717.7	7809.8	8175.2	5868.9	10725.5	17412.1	19964.2	16930.7	9187.4	7482.1	9730.3
62.5°	4576.7	4617.6	5080.2	3801.6	8902.4	14994.9	16556.9	14609.1	7260.2	5032.4	5959.4
65°	1756.6	1739.5	2092.9	1876.1	6546.6	11944.4	12314.8	11136.9	4981.2	2306.3	2272.1
67.5°	271.4	259.5	349.9	554.8	4721.8	8277.6	8125.7	8026.6	3120.5	537.7	469.4
70°	61.5	61.5	75.1	163.9	2884.9	4863.4	5204.9	4962.5	1997.3	114.4	61.5
72.5°	29.0	29.0	35.8	70.0	1044.7	2004.1	2335.3	2299.4	648.7	37.6	22.2
75°	10.2	11.9	11.9	15.4	63.2	104.1	239.0	170.7	41.0	0.0	0.0
77.5°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.7	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



REPORT NUMBER: P639748

CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8
2.5°	2482.1	2470.1	2425.7	2366.0	2308.0	2256.7	2203.8	2140.7	2094.6	2041.7	2024.6
5°	2758.6	2683.5	2562.3	2436.0	2319.9	2220.9	2125.3	2022.9	1947.8	1872.7	1847.0
7.5°	2992.5	2881.5	2685.2	2495.7	2337.0	2197.0	2058.7	1918.7	1809.5	1720.7	1693.4
10°	3202.5	3074.4	2811.5	2577.7	2377.9	2215.8	2048.5	1872.7	1731.0	1625.1	1599.5
12.5°	3383.4	3234.9	2919.1	2639.1	2395.0	2208.9	2046.8	1906.8	1778.8	1657.6	1625.1
15°	3535.3	3371.5	3009.6	2680.1	2369.4	2123.6	1981.9	1959.7	1949.5	1816.3	1753.2
17.5°	3683.9	3499.5	3083.0	2698.9	2297.7	1973.4	1870.9	1971.7	2079.2	1992.2	1911.9
20°	3839.2	3629.2	3158.1	2702.3	2178.2	1804.4	1787.3	1946.1	2082.6	2055.3	1980.2
22.5°	4021.9	3791.4	3252.0	2700.6	2028.0	1661.0	1725.8	1896.6	2007.5	2005.8	1946.1
25°	4286.5	3996.2	3378.3	2710.8	1864.1	1550.0	1657.6	1812.9	1903.4	1900.0	1850.5
27.5°	4569.8	4240.4	3542.2	2736.4	1724.1	1485.2	1577.3	1698.5	1777.1	1773.6	1731.0
30°	4967.6	4522.0	3699.2	2738.1	1623.4	1451.0	1488.6	1572.2	1647.3	1638.8	1606.4
32.5°	5450.7	4839.5	3830.7	2640.8	1560.3	1418.6	1396.4	1439.1	1497.1	1485.2	1476.6
35°	6034.5	5216.8	3943.3	2427.5	1463.0	1353.7	1294.0	1302.5	1343.5	1350.3	1346.9
37.5°	6700.2	5665.8	4083.3	2145.8	1331.5	1259.8	1179.6	1172.8	1196.7	1218.8	1235.9
40°	7357.5	6171.1	4272.8	1860.7	1212.0	1140.3	1063.5	1046.4	1056.7	1095.9	1131.8
42.5°	8096.6	6756.6	4477.6	1616.6	1130.1	1008.9	935.5	903.0	932.1	995.2	1037.9
45°	9161.8	7577.7	4677.4	1422.0	1095.9	892.8	793.8	790.4	822.8	904.7	952.5
47.5°	10657.2	8639.5	4808.8	1270.1	1094.2	802.3	684.5	705.0	742.6	822.8	877.4
50°	12115.1	9969.3	4663.7	1154.0	1058.4	742.6	602.6	643.6	681.1	751.1	807.4
52.5°	12994.2	10684.5	4098.7	1044.7	947.4	715.3	522.4	594.1	600.9	664.1	723.8
55°	12902.0	10221.9	3139.3	875.7	783.5	676.0	438.7	536.0	539.4	587.2	638.4
57.5°	11198.4	8776.0	2156.0	710.1	588.9	558.2	361.9	452.4	484.8	513.8	551.4
60°	8345.9	6403.2	961.1	577.0	373.8	377.3	309.0	341.4	390.9	425.1	457.5
62.5°	4918.1	3683.9	390.9	346.5	206.6	237.3	249.2	249.2	280.0	305.6	326.1
65°	1859.0	1288.8	158.8	174.1	107.5	111.0	146.8	180.9	204.8	227.0	254.4
67.5°	326.1	225.3	81.9	64.9	63.2	56.3	75.1	117.8	131.4	148.5	160.5
70°	54.6	46.1	34.1	32.4	29.0	30.7	49.5	83.6	92.2	97.3	102.4
72.5°	15.4	13.7	10.2	8.5	6.8	8.5	30.7	64.9	68.3	71.7	76.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	11.9	46.1	49.5	51.2	56.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	13.7	17.1	13.7
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°	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8
2.5°	2014.3	1980.2	1961.4	1951.2	1951.2	1937.5	1922.2	1917.0	1939.2	1939.2	1976.8
5°	1814.6	1787.3	1756.6	1737.8	1708.8	1713.9	1696.8	1695.1	1717.3	1727.6	1766.8
7.5°	1676.3	1642.2	1623.4	1611.5	1596.1	1589.3	1573.9	1568.8	1580.7	1597.8	1635.4
10°	1584.2	1579.0	1577.3	1585.9	1585.9	1577.3	1563.7	1555.1	1558.6	1591.0	1633.7
12.5°	1608.1	1618.3	1621.7	1635.4	1642.2	1635.4	1625.1	1628.5	1650.7	1710.5	1773.6
15°	1712.2	1703.7	1700.2	1707.1	1712.2	1705.4	1701.9	1727.6	1804.4	1889.7	1961.4
17.5°	1823.2	1768.5	1744.6	1744.6	1748.0	1744.6	1748.0	1797.5	1922.2	2007.5	2060.4
20°	1879.5	1778.8	1741.2	1732.7	1739.5	1741.2	1753.2	1809.5	1946.1	2005.8	2017.8
22.5°	1862.4	1736.1	1693.4	1686.6	1693.4	1700.2	1712.2	1760.0	1888.0	1918.7	1913.6
25°	1777.1	1652.4	1618.3	1618.3	1633.7	1632.0	1637.1	1671.2	1777.1	1795.8	1787.3
27.5°	1669.5	1551.7	1522.7	1539.8	1553.4	1550.0	1551.7	1580.7	1659.3	1664.4	1655.9
30°	1560.3	1457.8	1430.5	1451.0	1469.8	1466.4	1468.1	1497.1	1546.6	1541.5	1529.5
32.5°	1449.3	1374.2	1353.7	1365.7	1394.7	1391.3	1398.1	1428.8	1447.6	1425.4	1411.7
35°	1346.9	1307.6	1292.3	1299.1	1321.3	1326.4	1338.3	1358.8	1358.8	1331.5	1307.6
37.5°	1251.3	1246.2	1235.9	1227.4	1247.9	1263.2	1280.3	1304.2	1270.1	1230.8	1208.6
40°	1162.5	1184.7	1171.0	1148.9	1160.8	1183.0	1217.1	1235.9	1194.9	1155.7	1118.1
42.5°	1080.6	1118.1	1113.0	1085.7	1095.9	1116.4	1155.7	1171.0	1123.3	1078.9	1043.0
45°	1002.0	1055.0	1058.4	1024.2	1034.5	1055.0	1101.1	1106.2	1044.7	996.9	971.3
47.5°	933.8	991.8	993.5	967.9	971.3	1000.3	1043.0	1044.7	974.7	930.4	897.9
50°	868.9	935.5	940.6	918.4	921.8	956.0	991.8	985.0	909.9	863.8	834.8
52.5°	790.4	880.8	892.8	882.6	896.2	923.5	945.7	921.8	834.8	788.7	763.1
55°	705.0	822.8	848.4	841.6	856.9	879.1	884.3	868.9	759.6	713.6	689.7
57.5°	606.0	677.7	722.1	708.4	720.4	742.6	757.9	746.0	664.1	628.2	607.7
60°	501.9	549.7	559.9	537.7	527.5	566.7	602.6	587.2	517.2	495.1	471.2
62.5°	367.0	421.6	428.5	399.5	387.5	430.2	460.9	445.5	368.7	344.8	326.1
65°	293.6	344.8	358.5	331.2	324.3	356.8	375.6	338.0	283.4	257.8	237.3
67.5°	192.9	233.9	269.7	268.0	254.4	264.6	250.9	220.2	180.9	167.3	153.6
70°	119.5	143.4	165.6	174.1	172.4	169.0	150.2	128.0	116.1	111.0	104.1
72.5°	92.2	116.1	133.2	138.3	140.0	134.9	119.5	99.0	87.1	80.2	75.1
75°	68.3	87.1	100.7	107.5	111.0	107.5	92.2	78.5	66.6	61.5	56.3
77.5°	23.9	29.0	35.8	39.3	37.6	35.8	32.4	32.4	25.6	23.9	20.5
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



REPORT NUMBER: P639748

CATALOG NUMBER: GWS-SA5C-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8	2232.8
2.5°	2019.5	2050.2	2106.5	2157.7	2212.4	2268.7	2330.1	2393.3	2422.3	2418.9
5°	1826.6	1893.1	1985.3	2086.0	2198.7	2319.9	2454.8	2593.0	2652.8	2678.4
7.5°	1705.4	1799.3	1920.5	2048.5	2197.0	2369.4	2572.6	2789.4	2876.4	2905.4
10°	1720.7	1830.0	1930.7	2055.3	2214.1	2437.7	2690.3	2948.1	3050.5	3083.0
12.5°	1845.3	1869.2	1896.6	1999.0	2198.7	2488.9	2797.9	3105.2	3222.9	3255.4
15°	1958.0	1847.0	1795.8	1889.7	2144.1	2524.8	2907.1	3274.2	3403.9	3441.5
17.5°	1963.1	1795.8	1681.5	1754.9	2055.3	2540.1	3014.7	3446.6	3588.3	3624.1
20°	1900.0	1739.5	1592.7	1594.4	1934.1	2536.7	3103.5	3601.9	3760.7	3793.1
22.5°	1807.8	1672.9	1521.0	1468.1	1804.4	2529.9	3200.8	3767.5	3939.9	3970.6
25°	1705.4	1587.6	1452.7	1372.5	1674.6	2536.7	3337.3	3984.3	4173.8	4202.8
27.5°	1594.4	1493.7	1399.8	1334.9	1565.4	2562.3	3501.2	4260.8	4486.2	4516.9
30°	1478.3	1403.2	1365.7	1326.4	1497.1	2569.1	3678.7	4583.5	4868.6	4911.2
32.5°	1363.9	1323.0	1324.7	1331.5	1432.2	2521.3	3840.9	4942.0	5322.6	5390.9
35°	1258.1	1246.2	1280.3	1314.4	1338.3	2398.4	3982.6	5365.3	5884.3	5954.3
37.5°	1167.6	1177.9	1220.6	1254.7	1235.9	2224.3	4170.4	5894.5	6512.5	6572.2
40°	1080.6	1106.2	1155.7	1171.0	1157.4	2021.2	4395.7	6404.9	7057.0	7139.0
42.5°	1000.3	1019.1	1089.1	1092.5	1135.2	1814.6	4612.5	6954.6	7683.5	7726.2
45°	935.5	932.1	1003.8	1025.9	1164.2	1585.9	4824.2	7686.9	8502.9	8564.4
47.5°	872.3	868.9	886.0	986.7	1176.2	1374.2	5034.1	8759.0	9691.0	9796.9
50°	812.6	817.7	764.8	967.9	1111.3	1212.0	5129.7	9750.8	10771.6	10816.0
52.5°	759.6	740.9	648.7	906.5	973.0	1058.4	4858.3	10201.4	11440.8	11567.1
55°	684.5	580.4	534.3	735.7	768.2	923.5	3979.2	9940.3	11498.8	11722.4
57.5°	585.5	455.8	454.1	542.8	542.8	856.9	2548.7	8492.7	9909.5	10302.2
60°	450.7	353.4	375.6	377.3	348.2	624.8	1430.5	6152.3	7326.7	7717.7
62.5°	320.9	269.7	283.4	225.3	199.7	312.4	686.2	3542.2	4522.0	4576.7
65°	215.1	182.7	148.5	124.6	122.9	133.2	283.4	1280.3	1556.8	1756.6
67.5°	141.7	111.0	78.5	78.5	88.8	88.8	107.5	211.7	297.0	271.4
70°	92.2	76.8	49.5	47.8	58.0	58.0	54.6	58.0	61.5	61.5
72.5°	68.3	58.0	29.0	25.6	32.4	34.1	30.7	29.0	29.0	29.0
75°	51.2	41.0	17.1	11.9	15.4	20.5	17.1	11.9	11.9	10.2
77.5°	20.5	15.4	6.8	5.1	8.5	11.9	10.2	5.1	3.4	3.4
80°	1.7	3.4	3.4	3.4	5.1	6.8	8.5	3.4	1.7	1.7
82.5°	0.0	1.7	1.7	1.7	3.4	5.1	6.8	3.4	1.7	1.7
85°	0.0	0.0	0.0	0.0	3.4	5.1	3.4	1.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.7	5.1	3.4	1.7	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)