

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: P639030

Luminaire Tested: GWS-SA5B-722-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10180.3 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

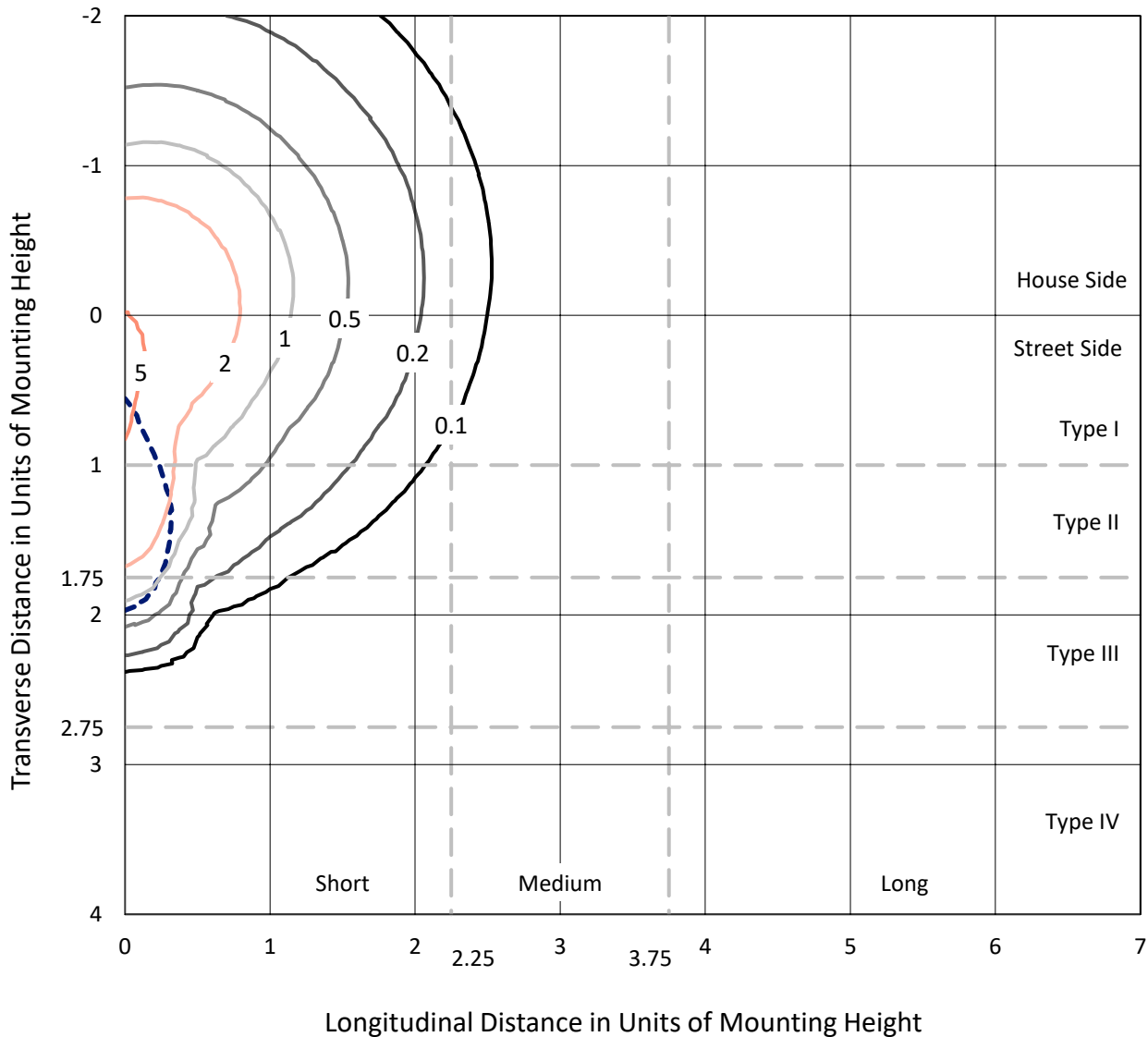
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

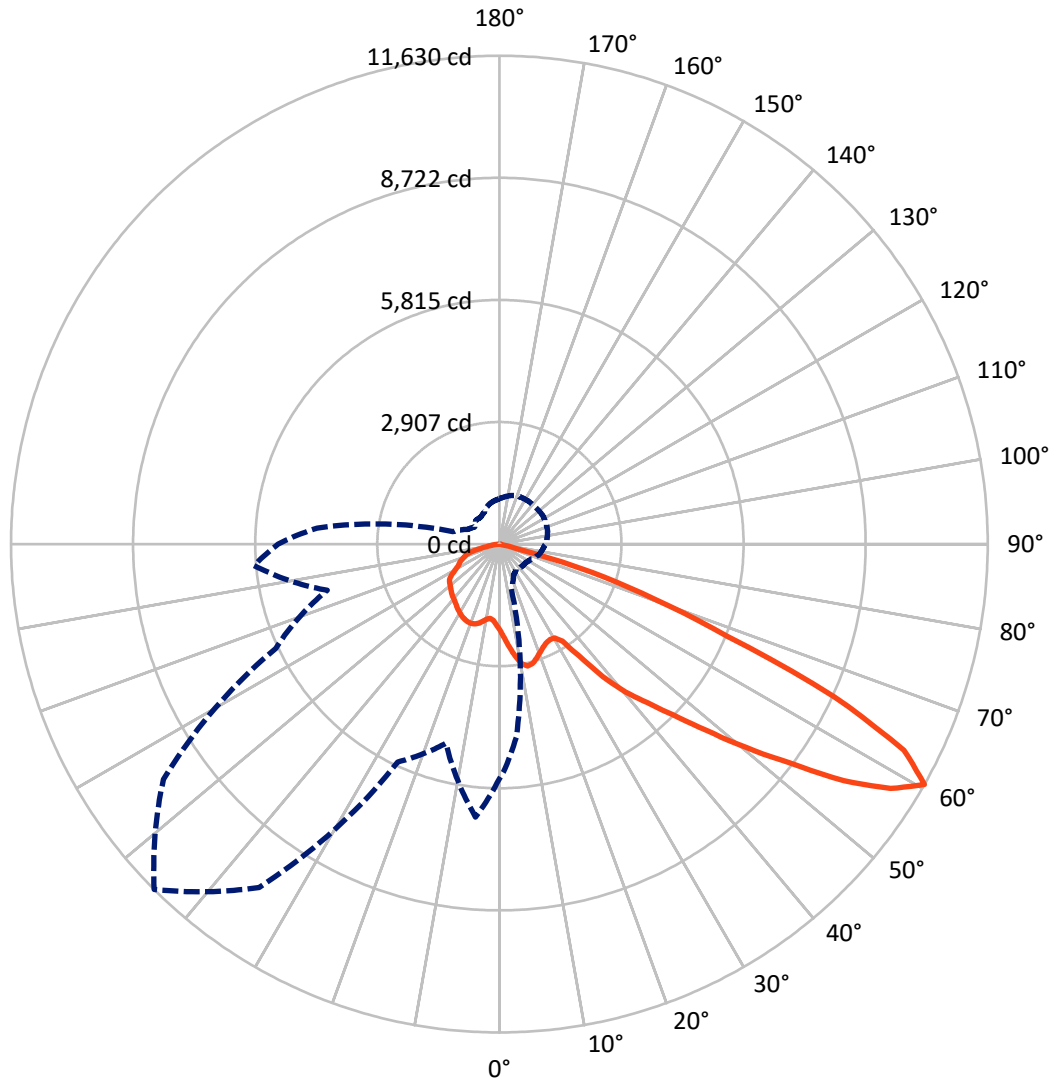
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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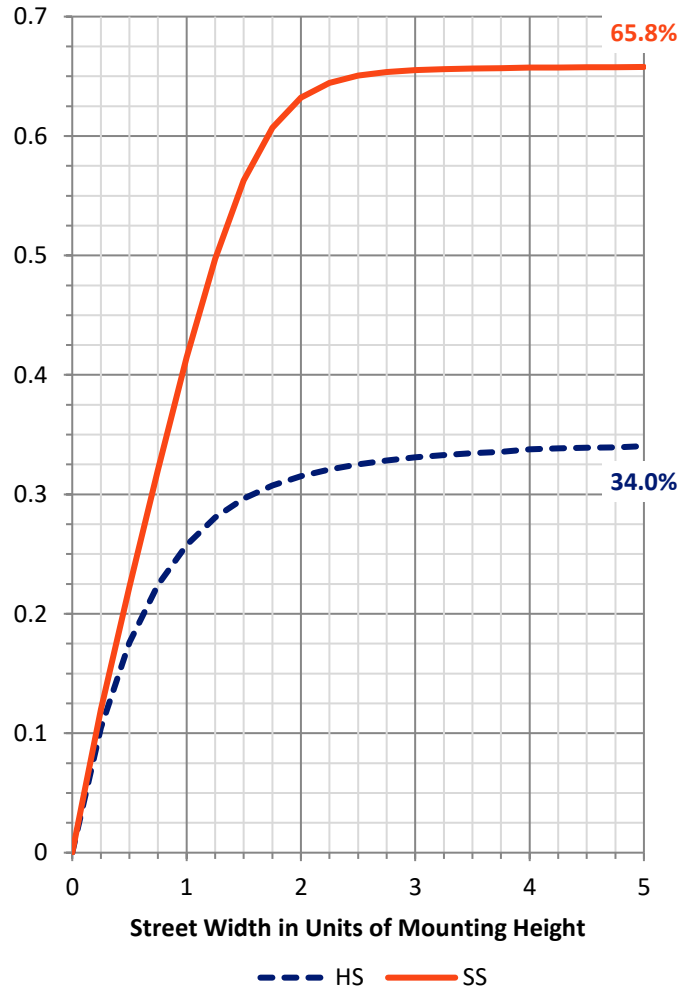
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.6	0.0	3482.6
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	6697.7	0.0	6697.7
	% Fixture	65.8	0.0	65.8
Total	Lumens	10180.3	0.0	10180.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	2.0
10°-20°	643.4	6.3
20°-30°	1047.9	10.3
30°-40°	1472.1	14.5
40°-50°	2014.4	19.8
50°-60°	2584.3	25.4
60°-70°	1740.2	17.1
70°-80°	435.0	4.3
80°-90°	42.4	0.4
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°	10180.3	100.0
0°-180°	10180.3	100.0

Coefficient of Utilization



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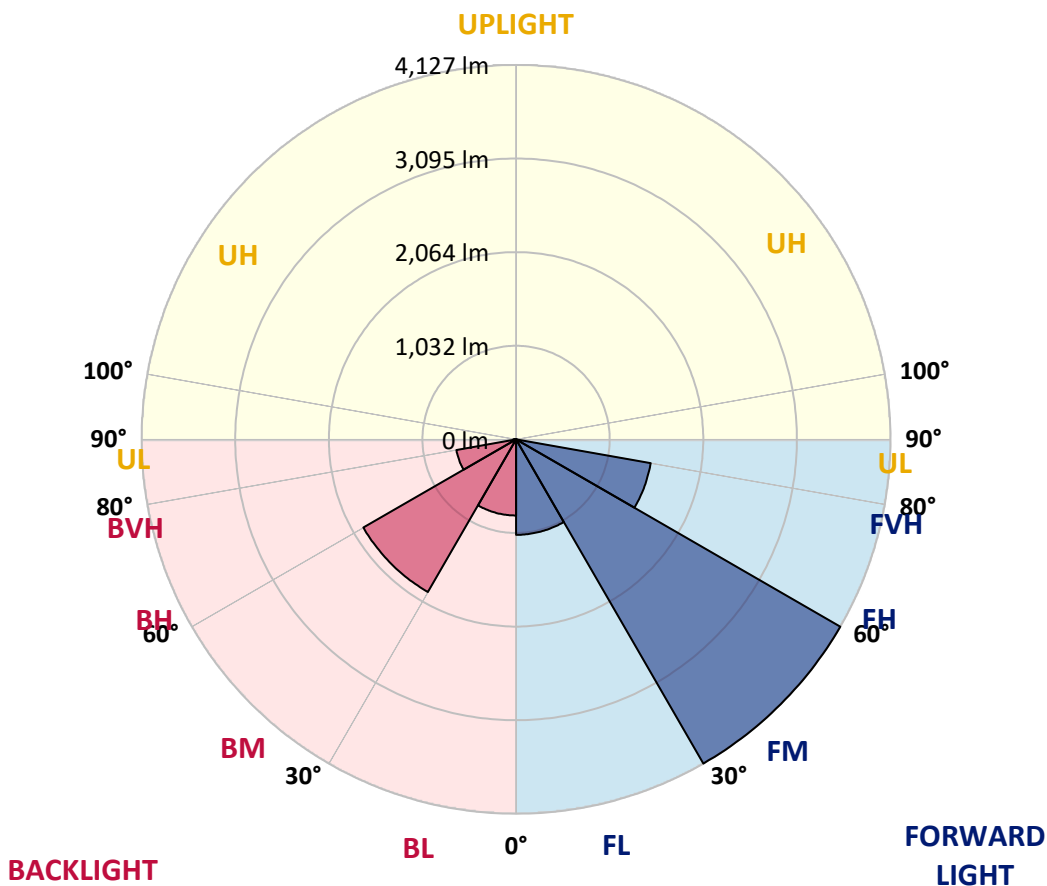
CATALOG NUMBER: GWS-SA5B-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.4	10.3			
FM (30°-60°)	4127.2	40.5			
FH (60°-80°)	1507.1	14.8			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	839.5	8.2	B2/1000		
BM (30°-60°)	1943.6	19.1	B2/2500		
BH (60°-80°)	668.1	6.6	B2/1000		G2/1000
BVH (80°-90°)	31.4	0.3			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	2172.3	2167.6	2163.0	2126.4	2117.0	2090.8	2072.0	2048.6	2014.8	1996.1	1980.1
5°	2308.3	2300.8	2275.5	2200.5	2151.7	2098.3	2054.2	2005.4	1953.9	1920.1	1893.9
7.5°	2436.7	2434.8	2391.7	2268.0	2189.2	2112.3	2052.3	1981.1	1907.0	1856.4	1822.6
10°	2555.8	2541.7	2490.2	2328.9	2225.8	2137.6	2072.9	1994.2	1907.9	1839.5	1794.5
12.5°	2660.8	2643.0	2571.7	2385.2	2257.6	2148.9	2078.6	2013.9	1956.7	1899.5	1847.9
15°	2747.1	2725.5	2653.3	2437.7	2285.8	2142.3	2043.9	1993.3	2012.9	2038.3	1981.1
17.5°	2827.7	2805.2	2717.1	2476.1	2294.2	2102.0	1958.6	1937.0	2036.4	2151.7	2125.5
20°	2895.2	2869.9	2767.7	2494.8	2279.2	2025.1	1847.9	1885.4	2016.7	2154.5	2196.7
22.5°	2968.3	2947.7	2824.9	2522.0	2260.5	1919.2	1755.1	1847.0	1982.9	2103.9	2167.6
25°	3085.5	3060.2	2913.9	2569.9	2251.1	1819.8	1688.5	1809.5	1936.1	2045.8	2095.4
27.5°	3255.2	3208.3	3035.8	2653.3	2261.4	1726.0	1646.4	1763.6	1881.7	1975.4	2015.8
30°	3439.9	3383.7	3170.8	2739.6	2276.4	1668.9	1623.9	1711.0	1798.2	1892.0	1936.1
32.5°	3658.4	3608.7	3315.2	2804.2	2244.5	1642.6	1607.0	1653.9	1723.2	1798.2	1834.8
35°	3919.0	3829.9	3472.7	2856.7	2141.4	1604.2	1592.0	1591.0	1627.6	1700.7	1742.0
37.5°	4199.3	4103.7	3666.8	2913.0	1981.1	1543.2	1556.4	1517.0	1550.7	1608.9	1655.7
40°	4429.0	4328.7	3862.8	2989.9	1780.4	1447.6	1477.6	1435.4	1456.0	1516.0	1568.5
42.5°	4654.1	4547.2	4045.6	3077.1	1586.4	1353.8	1368.8	1352.9	1359.5	1422.3	1495.4
45°	4949.4	4829.4	4270.6	3139.0	1412.0	1279.8	1265.7	1238.5	1273.2	1354.8	1432.6
47.5°	5442.5	5299.1	4639.1	3179.3	1285.4	1237.6	1172.9	1157.0	1200.1	1291.0	1371.7
50°	6019.1	5895.4	5227.8	3177.4	1190.7	1202.0	1082.9	1068.8	1140.1	1232.0	1317.3
52.5°	6491.7	6366.0	5731.3	3083.6	1112.9	1126.0	1030.4	991.0	1088.5	1173.8	1259.1
55°	6873.3	6731.7	5962.9	2691.7	1014.4	1005.1	973.2	901.0	1023.8	1115.7	1195.4
57.5°	6667.9	6499.2	5682.6	2046.7	913.2	854.1	874.7	821.3	935.7	1051.0	1127.9
60°	5590.7	5438.8	4616.5	1089.4	803.5	713.5	756.6	765.0	839.1	973.2	1051.9
62.5°	3840.2	3729.6	3128.6	661.0	633.8	572.8	640.4	701.3	756.6	870.1	938.5
65°	1878.9	1846.1	1564.8	423.8	443.5	463.2	530.7	604.7	686.3	785.7	857.9
67.5°	517.5	521.3	474.4	331.0	349.7	404.1	457.5	516.6	598.2	690.0	763.2
70°	227.8	231.6	239.1	255.0	290.6	340.3	395.7	456.6	531.6	608.5	678.8
72.5°	158.4	162.2	173.4	194.1	226.0	272.8	325.3	383.5	461.3	526.0	584.1
75°	97.5	100.3	110.6	128.4	150.0	185.6	237.2	290.6	359.1	418.2	469.7
77.5°	51.6	49.7	56.3	68.4	87.2	105.9	140.6	174.4	223.1	271.0	314.1
80°	28.1	27.2	30.9	37.5	43.1	58.1	81.6	104.1	132.2	159.4	182.8
82.5°	12.2	11.3	12.2	15.9	19.7	28.1	41.3	57.2	73.1	91.9	106.9
85°	0.0	0.0	0.0	0.9	4.7	7.5	14.1	20.6	30.0	41.3	50.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	8.4
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°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	1970.8	1947.3	1945.4	1926.7	1928.6	1929.5	1910.7	1903.2	1909.8	1917.3	1913.6
5°	1884.5	1860.1	1849.8	1832.0	1830.1	1821.7	1814.2	1804.8	1811.4	1817.9	1821.7
7.5°	1809.5	1793.6	1787.0	1782.3	1784.2	1780.4	1765.4	1757.0	1756.1	1758.9	1762.6
10°	1785.1	1772.0	1780.4	1793.6	1802.9	1809.5	1793.6	1779.5	1766.4	1760.7	1760.7
12.5°	1837.6	1820.7	1837.6	1851.7	1870.4	1875.1	1857.3	1842.3	1837.6	1843.2	1854.5
15°	1953.9	1914.5	1913.6	1922.0	1937.0	1944.5	1927.6	1920.1	1920.1	1955.8	1983.9
17.5°	2070.1	2005.4	1978.3	1973.6	1982.9	1985.8	1971.7	1965.1	1982.0	2051.4	2103.9
20°	2151.7	2072.9	2013.9	2002.6	2005.4	2006.4	1995.1	1990.4	2014.8	2099.2	2143.3
22.5°	2143.3	2085.1	2012.9	1998.9	2003.6	2001.7	1991.4	1989.5	2009.2	2082.3	2102.9
25°	2085.1	2040.1	1979.2	1969.8	1977.3	1976.4	1966.1	1961.4	1969.8	2018.6	2020.4
27.5°	2018.6	1979.2	1926.7	1923.9	1936.1	1942.6	1924.8	1910.7	1907.9	1940.8	1933.3
30°	1938.9	1909.8	1867.6	1869.5	1892.0	1895.7	1874.2	1853.6	1847.9	1865.7	1855.4
32.5°	1844.2	1834.8	1812.3	1817.0	1838.6	1846.1	1823.6	1802.0	1795.4	1801.1	1779.5
35°	1763.6	1759.8	1761.7	1770.1	1788.9	1794.5	1775.7	1758.9	1749.5	1729.8	1701.7
37.5°	1680.1	1690.4	1717.6	1733.6	1743.9	1742.0	1731.7	1719.5	1704.5	1667.9	1633.2
40°	1602.3	1628.5	1677.3	1695.1	1698.9	1699.8	1692.3	1682.0	1663.2	1614.5	1575.1
42.5°	1542.3	1571.4	1636.0	1663.2	1665.1	1667.0	1659.5	1651.0	1624.8	1560.1	1521.7
45°	1479.5	1517.9	1593.9	1626.7	1624.8	1623.9	1617.3	1613.5	1582.6	1507.6	1465.4
47.5°	1426.0	1471.0	1552.6	1580.7	1579.8	1578.9	1574.2	1574.2	1543.2	1461.7	1413.8
50°	1373.5	1425.1	1510.4	1533.8	1535.7	1533.8	1532.0	1534.8	1498.2	1411.0	1364.2
52.5°	1316.3	1374.5	1463.5	1485.1	1496.3	1501.0	1501.0	1494.5	1451.3	1360.4	1308.8
55°	1253.5	1308.8	1412.0	1441.0	1450.4	1458.8	1458.8	1445.7	1405.4	1313.5	1258.2
57.5°	1175.7	1224.5	1306.0	1335.1	1357.6	1363.2	1363.2	1341.6	1308.8	1220.7	1175.7
60°	1091.3	1133.5	1188.8	1219.8	1236.6	1225.4	1233.8	1228.2	1202.0	1120.4	1082.9
62.5°	978.8	1021.9	1082.9	1114.8	1122.3	1111.0	1122.3	1121.3	1085.7	1012.6	967.6
65°	898.2	940.4	1000.4	1041.6	1053.8	1051.0	1058.5	1047.3	1003.2	933.8	890.7
67.5°	802.6	847.6	916.9	962.9	988.2	991.0	1001.3	977.9	932.9	856.9	802.6
70°	711.6	750.0	803.5	846.6	882.2	900.1	901.9	868.2	811.9	749.1	709.7
72.5°	616.0	655.4	720.0	766.9	811.9	832.6	832.6	791.3	730.4	661.0	618.8
75°	499.7	536.3	595.4	646.0	697.5	723.8	722.9	687.2	619.7	554.1	510.0
77.5°	338.5	365.6	403.2	441.6	449.1	469.7	480.0	435.0	397.5	361.9	322.5
80°	196.9	213.8	234.4	256.0	260.6	267.2	250.3	233.5	213.8	190.3	172.5
82.5°	115.3	126.6	136.9	153.8	156.6	158.4	143.4	135.9	120.0	105.9	94.7
85°	56.3	60.0	69.4	77.8	74.1	72.2	65.6	58.1	51.6	45.9	40.3
87.5°	11.3	11.3	16.9	15.9	13.1	11.3	6.6	8.4	1.9	1.9	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°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	1925.8	1941.7	1961.4	1987.6	2017.6	2049.5	2080.4	2103.9	2127.3	2162.0	2156.4
5°	1827.3	1854.5	1885.4	1925.8	1974.5	2029.8	2091.7	2153.6	2220.1	2276.4	2300.8
7.5°	1770.1	1800.1	1836.7	1889.2	1952.0	2019.5	2106.7	2207.0	2314.8	2388.9	2434.8
10°	1770.1	1808.6	1856.4	1907.0	1962.3	2031.7	2139.5	2265.1	2403.9	2501.4	2554.9
12.5°	1872.3	1910.7	1921.1	1919.2	1950.1	2027.0	2165.8	2326.1	2492.0	2595.2	2660.8
15°	2031.7	2044.8	1967.0	1895.7	1900.4	1993.3	2178.0	2374.8	2568.0	2691.7	2763.0
17.5°	2138.6	2103.9	1965.1	1840.4	1814.2	1936.1	2178.0	2421.7	2648.6	2788.3	2854.9
20°	2147.0	2060.8	1917.3	1787.0	1719.5	1860.1	2163.0	2457.3	2726.4	2881.1	2952.4
22.5°	2072.9	1987.6	1866.7	1741.1	1641.7	1768.2	2138.6	2484.5	2793.0	2968.3	3056.4
25°	1988.6	1917.3	1815.1	1694.2	1588.2	1675.4	2116.1	2530.5	2885.8	3086.5	3175.5
27.5°	1906.1	1846.1	1753.2	1654.8	1558.2	1594.8	2102.0	2598.0	2996.4	3254.3	3331.2
30°	1825.4	1771.1	1686.7	1617.3	1542.3	1542.3	2089.8	2675.8	3142.7	3442.7	3519.6
32.5°	1743.9	1692.3	1623.9	1580.7	1532.9	1521.7	2056.1	2748.9	3293.7	3649.0	3727.7
35°	1667.9	1616.4	1563.9	1546.0	1528.2	1505.7	1972.6	2806.1	3440.8	3889.9	3957.4
37.5°	1596.7	1547.0	1507.6	1502.9	1504.8	1462.6	1841.4	2853.9	3624.6	4136.5	4172.1
40°	1534.8	1479.5	1448.5	1447.6	1457.0	1393.2	1675.4	2922.4	3834.6	4345.6	4330.6
42.5°	1479.5	1421.3	1383.8	1392.3	1386.7	1323.8	1513.2	2985.2	4017.4	4541.5	4511.5
45°	1425.1	1368.8	1316.3	1328.5	1322.0	1280.7	1375.4	3031.1	4220.0	4776.9	4780.6
47.5°	1372.6	1317.3	1264.8	1249.8	1248.8	1267.6	1269.5	3046.1	4550.0	5155.6	5070.3
50°	1323.8	1268.5	1214.1	1163.5	1183.2	1241.3	1190.7	3034.9	5044.1	5573.8	5335.7
52.5°	1273.2	1220.7	1160.7	1069.8	1121.3	1178.5	1120.4	2994.6	5346.0	5943.2	5800.7
55°	1215.1	1165.4	1083.8	973.2	1036.0	1048.2	1048.2	2604.5	5474.4	6308.8	6397.0
57.5°	1137.3	1071.6	942.2	853.2	909.4	862.6	971.3	1822.6	5262.5	6193.5	6535.7
60°	1049.1	978.8	841.9	778.2	795.1	712.5	827.9	1142.9	4361.5	5270.0	5862.6
62.5°	932.9	868.2	754.7	705.0	670.4	581.3	666.6	722.9	2989.9	3913.4	4317.5
65°	855.1	783.8	682.5	616.9	545.7	467.8	442.5	474.4	1607.9	2190.1	2463.0
67.5°	763.2	692.9	597.2	514.7	457.5	401.3	357.2	346.0	551.3	729.4	789.4
70°	676.0	608.5	528.8	451.9	394.7	339.4	296.3	265.3	255.0	253.1	249.4
72.5°	586.9	524.1	457.5	386.3	323.5	272.8	234.4	198.8	183.8	179.1	174.4
75°	481.0	431.3	364.7	287.8	237.2	190.3	160.3	136.9	123.8	119.1	113.4
77.5°	309.4	286.9	228.8	185.6	143.4	113.4	97.5	82.5	74.1	72.2	67.5
80°	165.0	153.8	126.6	106.9	85.3	69.4	60.9	52.5	47.8	45.9	44.1
82.5°	91.9	83.4	70.3	61.9	49.7	42.2	37.5	33.8	30.9	30.0	29.1
85°	41.3	35.6	28.1	26.3	23.4	21.6	20.6	18.8	17.8	16.9	15.9
87.5°	1.9	3.8	4.7	3.8	3.8	5.6	6.6	6.6	5.6	5.6	4.7
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: P639030

CATALOG NUMBER: GWS-SA5B-722-U-SLL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	2191.1	2219.2	2222.0	2231.4	2219.2	2216.4	2196.7	2185.5	2175.1	2172.3
5°	2361.7	2418.0	2440.5	2456.4	2441.4	2433.9	2390.8	2345.8	2320.5	2308.3
7.5°	2537.0	2621.4	2665.5	2685.2	2687.0	2653.3	2579.2	2494.8	2452.7	2436.7
10°	2693.6	2797.7	2855.8	2893.3	2880.2	2838.9	2737.7	2623.3	2569.9	2555.8
12.5°	2809.9	2909.3	2954.3	2978.6	2977.7	2955.2	2859.6	2735.8	2674.9	2660.8
15°	2884.9	2943.9	2946.8	2952.4	2968.3	2998.3	2948.6	2834.2	2766.7	2747.1
17.5°	2943.9	2920.5	2876.4	2861.4	2897.1	2980.5	3010.5	2917.7	2844.6	2827.7
20°	2981.4	2863.3	2785.5	2756.4	2797.7	2933.6	3048.0	2992.7	2916.8	2895.2
22.5°	3010.5	2809.9	2684.2	2664.5	2707.7	2883.0	3086.5	3081.8	2998.3	2968.3
25°	3056.4	2774.2	2613.0	2598.9	2639.2	2858.6	3138.0	3202.7	3128.6	3085.5
27.5°	3128.6	2770.5	2576.4	2571.7	2627.0	2880.2	3212.1	3379.9	3287.1	3255.2
30°	3229.0	2806.1	2584.9	2594.2	2661.7	2958.0	3327.4	3582.4	3489.6	3439.9
32.5°	3373.3	2901.8	2713.3	2753.6	2803.3	3082.7	3496.2	3801.8	3731.5	3658.4
35°	3563.7	3164.3	3093.0	3264.6	3217.7	3355.5	3699.6	4068.1	3982.8	3919.0
37.5°	3817.7	3702.4	3768.1	4004.3	3890.9	3871.2	3948.1	4310.0	4263.1	4199.3
40°	4174.0	4197.5	4318.4	4628.7	4464.7	4338.1	4252.8	4491.9	4507.8	4429.0
42.5°	4410.3	4518.1	4809.7	5162.2	4936.3	4633.4	4507.8	4724.4	4725.3	4654.1
45°	4498.4	4780.6	5390.0	5796.0	5418.2	4802.2	4648.4	5040.3	5031.0	4949.4
47.5°	4466.5	5001.9	5992.9	6613.6	6037.0	4922.2	4628.7	5490.4	5566.3	5442.5
50°	4400.0	5224.1	6697.0	7614.9	6796.4	5049.7	4598.7	5989.1	6114.8	6019.1
52.5°	4467.5	5471.6	7529.6	8649.9	7748.9	5253.2	4801.2	6629.5	6607.0	6491.7
55°	4681.2	5764.1	8541.2	9950.3	8795.3	5597.2	5321.6	7239.8	7011.1	6873.3
57.5°	4670.9	5973.2	9428.1	10978.8	9705.6	5879.4	5502.5	7304.5	6842.3	6667.9
60°	4239.7	5877.6	9765.6	11629.5	9980.3	5723.8	4907.2	6524.5	5773.5	5590.7
62.5°	3164.3	5215.7	9111.2	10814.8	9203.1	4943.8	3690.2	4683.1	4148.7	3840.2
65°	2024.2	4080.3	7659.9	8761.5	7585.8	3781.2	2197.6	2510.8	1967.0	1878.9
67.5°	861.6	2880.2	5954.4	5856.0	5675.1	2449.8	848.5	706.9	526.9	517.5
70°	285.0	1959.5	3670.6	3905.9	3389.3	1687.6	280.3	237.2	236.3	227.8
72.5°	186.6	1051.9	2066.4	2300.8	2180.8	971.3	169.7	158.4	162.2	158.4
75°	111.6	228.8	347.8	451.9	347.8	163.1	102.2	100.3	102.2	97.5
77.5°	65.6	63.8	61.9	61.9	60.9	56.3	51.6	49.7	50.6	51.6
80°	42.2	40.3	38.4	37.5	32.8	30.9	29.1	27.2	27.2	28.1
82.5°	27.2	25.3	23.4	20.6	16.9	14.1	13.1	11.3	11.3	12.2
85°	14.1	11.3	8.4	6.6	3.8	1.9	0.0	0.0	0.0	0.0
87.5°	2.8	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)