

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: P642439

Luminaire Tested: GWS-SA6C-830-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642439
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-SA6C-830-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12095.2 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

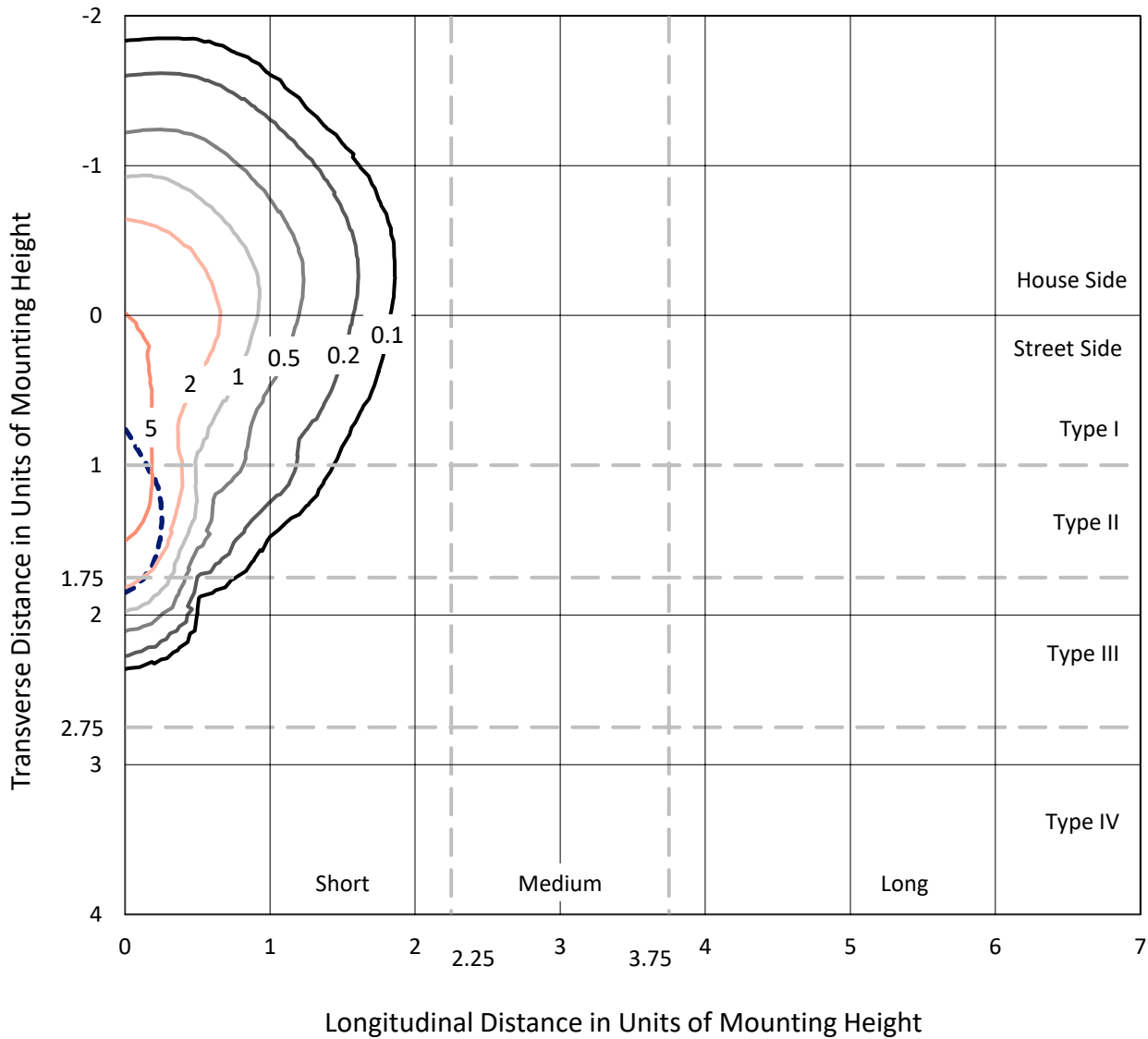
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

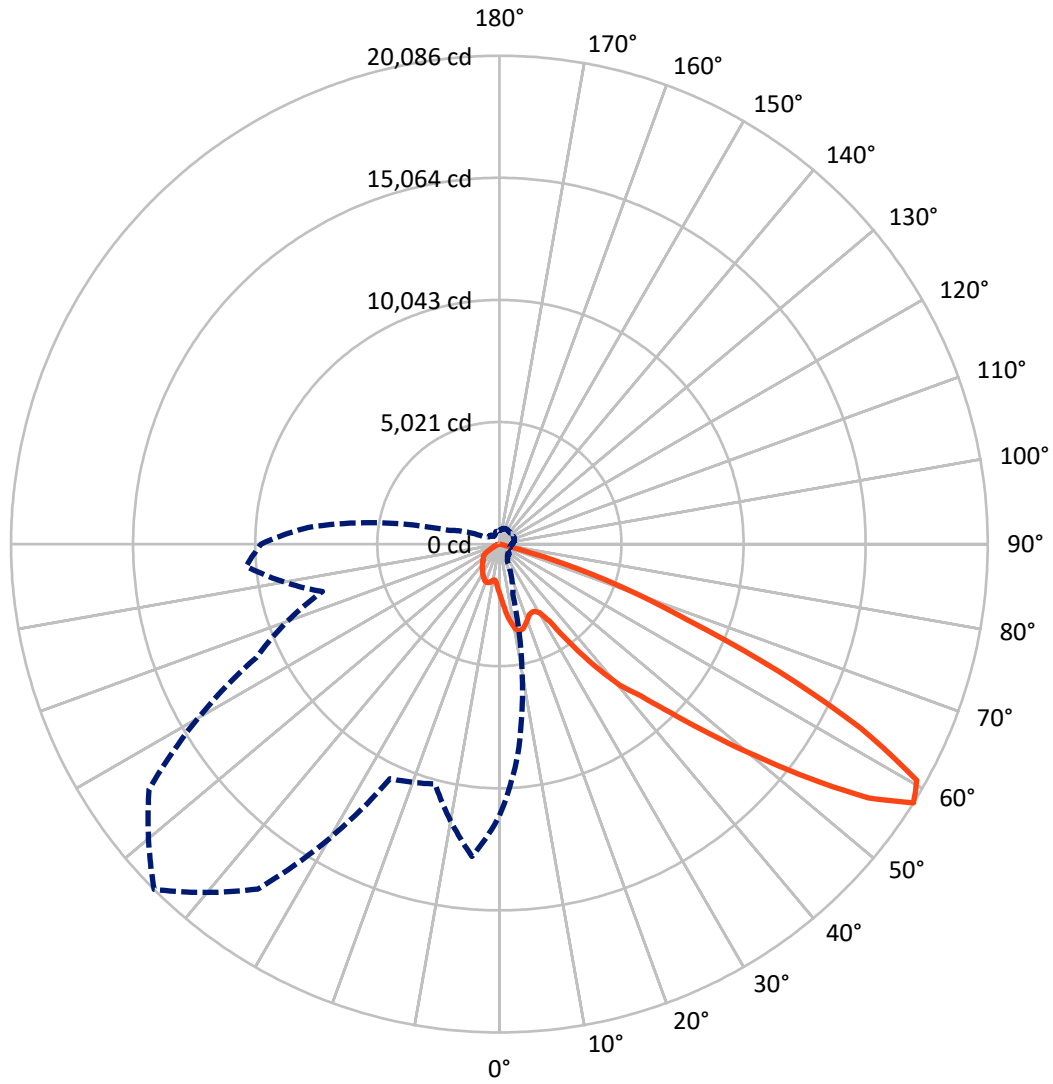
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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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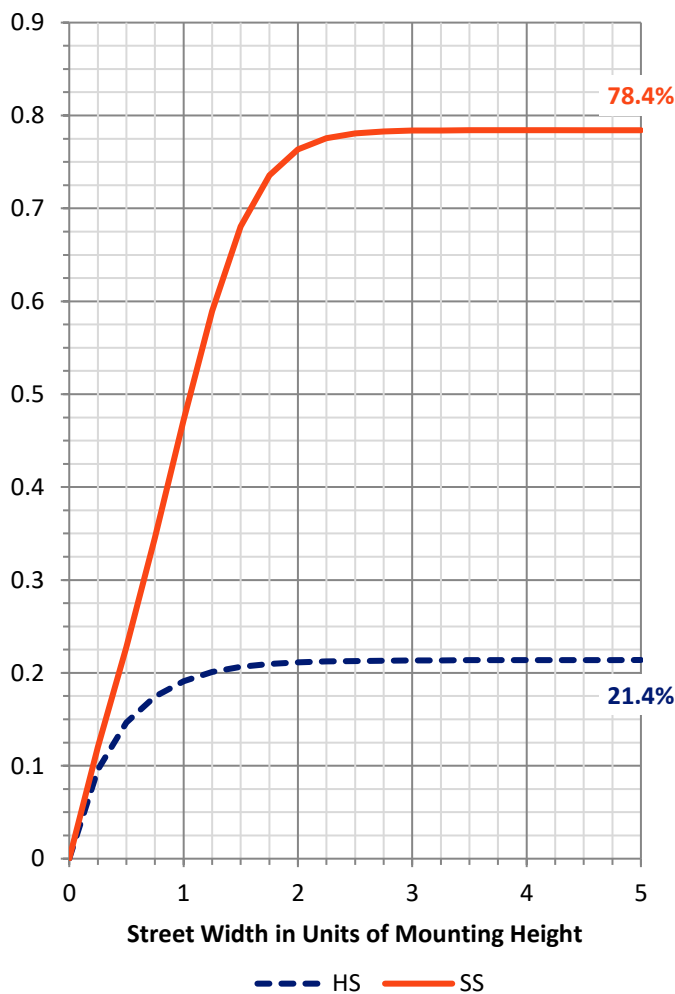
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.7	0.0	2605.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	9489.5	0.0	9489.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	12095.2	0.0	12095.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	1.7
10°-20°	668.4	5.5
20°-30°	1084.7	9.0
30°-40°	1664.8	13.8
40°-50°	2658.8	22.0
50°-60°	3722.8	30.8
60°-70°	1908.8	15.8
70°-80°	183.8	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°	12095.2	100.0
0°-180°	12095.2	100.0

Coefficient of Utilization



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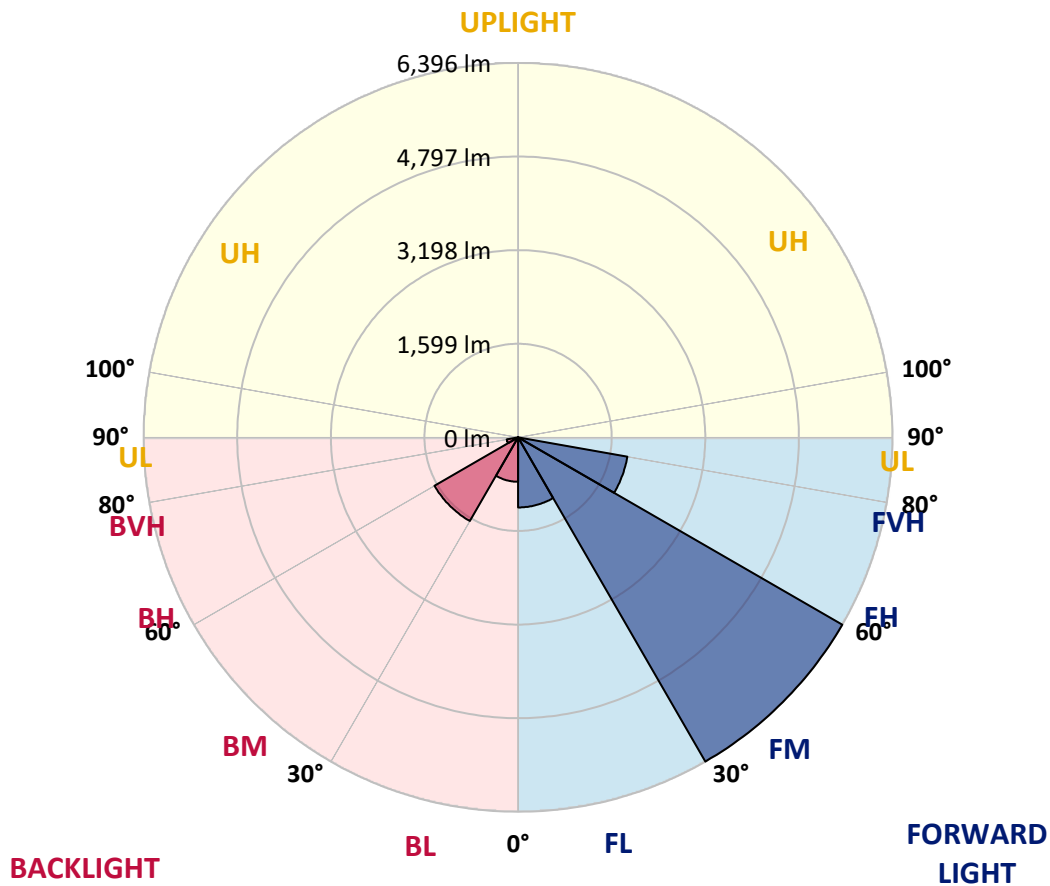
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.5	9.9			
FM (30°-60°)	6396.2	52.9			
FH (60°-80°)	1895.8	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	758.7	6.3	B2/1000		
BM (30°-60°)	1650.2	13.6	B2/2500		
BH (60°-80°)	196.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	2283.1	2278.3	2262.1	2207.1	2173.2	2119.8	2081.0	2030.9	1975.9	1942.0	1908.0
5°	2525.7	2512.8	2469.1	2343.0	2246.0	2140.9	2056.8	1964.6	1866.0	1801.3	1741.5
7.5°	2758.5	2739.1	2680.9	2467.5	2320.3	2170.0	2050.3	1916.1	1777.0	1680.0	1605.6
10°	2986.5	2942.9	2850.7	2588.7	2389.9	2208.8	2068.1	1914.5	1751.2	1628.3	1545.8
12.5°	3174.1	3141.7	3015.6	2703.6	2448.1	2216.8	2043.8	1901.5	1791.6	1709.1	1633.1
15°	3335.8	3300.2	3180.6	2807.0	2498.2	2184.5	1942.0	1817.5	1835.2	1867.6	1802.9
17.5°	3484.5	3447.4	3318.0	2892.7	2517.6	2105.3	1799.7	1739.8	1838.5	1959.8	1935.5
20°	3638.2	3596.1	3437.7	2962.3	2511.1	1980.8	1655.8	1673.6	1812.6	1951.7	1964.6
22.5°	3817.6	3774.0	3589.6	3051.2	2506.3	1832.0	1531.3	1615.3	1764.1	1882.1	1904.8
25°	4055.3	4003.6	3801.5	3182.2	2519.2	1696.2	1442.3	1558.7	1681.6	1788.4	1801.3
27.5°	4369.0	4302.7	4045.6	3343.9	2546.7	1589.5	1403.5	1481.1	1576.5	1671.9	1683.3
30°	4778.1	4694.0	4325.4	3484.5	2533.8	1515.1	1377.6	1403.5	1460.1	1537.7	1539.3
32.5°	5256.7	5141.9	4639.1	3605.8	2422.2	1460.1	1342.1	1324.3	1337.2	1397.1	1408.4
35°	5819.4	5670.7	4985.1	3720.6	2218.5	1353.4	1277.4	1217.6	1212.7	1241.8	1269.3
37.5°	6464.6	6286.7	5421.7	3867.8	1977.5	1241.8	1182.0	1122.2	1096.3	1110.9	1152.9
40°	7059.6	6862.4	5877.6	4045.6	1731.8	1141.6	1070.4	1009.0	978.3	983.1	1034.9
42.5°	7758.2	7554.4	6435.5	4278.5	1528.0	1073.7	954.0	890.9	850.5	873.2	933.0
45°	8818.9	8587.7	7248.8	4480.6	1366.3	1057.5	852.1	763.2	743.8	782.6	853.8
47.5°	10267.7	9984.7	8366.1	4603.5	1228.9	1072.0	781.0	659.7	664.6	708.2	779.4
50°	11705.2	11399.6	9658.1	4441.8	1115.7	1042.9	745.4	578.9	609.6	648.4	713.1
52.5°	12693.1	12295.3	10287.1	3974.5	1012.2	933.0	742.2	502.9	561.1	574.0	629.0
55°	12731.9	12242.0	9965.3	3133.7	871.5	787.5	708.2	439.8	507.7	512.6	559.5
57.5°	11160.2	10717.2	8708.9	2152.2	774.5	577.3	564.3	384.8	417.2	457.6	486.7
60°	8490.6	8113.9	6513.1	986.3	588.6	367.0	386.5	331.5	312.1	371.9	401.0
62.5°	5200.1	4959.2	3906.6	436.6	375.1	195.7	234.5	263.6	234.5	257.1	281.4
65°	2064.9	1958.1	1482.8	186.0	153.6	98.6	106.7	153.6	164.9	181.1	203.7
67.5°	359.0	339.6	249.0	82.5	63.1	59.8	51.7	71.1	100.3	111.6	129.4
70°	46.9	45.3	40.4	34.0	32.3	29.1	22.6	45.3	67.9	71.1	82.5
72.5°	11.3	9.7	9.7	8.1	9.7	3.2	3.2	24.3	48.5	50.1	58.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	30.7	34.0	40.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	1880.5	1848.2	1836.9	1820.7	1799.7	1806.1	1777.0	1767.3	1781.9	1801.3	1796.4
5°	1709.1	1673.6	1649.3	1612.1	1605.6	1591.1	1581.4	1568.4	1584.6	1607.3	1612.1
7.5°	1573.3	1542.6	1518.3	1507.0	1498.9	1492.5	1473.0	1463.3	1463.3	1473.0	1481.1
10°	1515.1	1492.5	1487.6	1490.8	1503.8	1502.2	1484.4	1471.4	1455.3	1447.2	1456.9
12.5°	1595.9	1558.7	1552.3	1553.9	1570.1	1568.4	1549.0	1532.9	1529.6	1532.9	1563.6
15°	1733.4	1676.8	1634.7	1626.7	1634.7	1631.5	1617.0	1607.3	1612.1	1659.0	1710.7
17.5°	1856.3	1769.0	1693.0	1663.8	1662.2	1657.4	1642.8	1639.6	1663.8	1751.2	1827.2
20°	1891.8	1806.1	1697.8	1660.6	1652.5	1647.7	1631.5	1636.4	1667.1	1772.2	1836.9
22.5°	1844.9	1762.5	1649.3	1612.1	1605.6	1604.0	1587.9	1594.3	1620.2	1712.4	1765.7
25°	1756.0	1686.5	1568.4	1536.1	1536.1	1532.9	1518.3	1521.6	1537.7	1618.6	1670.3
27.5°	1647.7	1581.4	1482.8	1450.4	1455.3	1460.1	1442.3	1437.5	1450.4	1526.4	1557.1
30°	1523.2	1476.3	1398.7	1369.6	1367.9	1387.4	1363.1	1356.6	1374.4	1434.2	1440.7
32.5°	1401.9	1379.3	1324.3	1301.7	1303.3	1306.5	1293.6	1293.6	1309.7	1342.1	1340.5
35°	1283.9	1269.3	1259.6	1243.4	1241.8	1235.4	1235.4	1238.6	1256.4	1267.7	1246.7
37.5°	1170.7	1185.2	1196.5	1180.4	1167.4	1167.4	1167.4	1182.0	1198.2	1193.3	1157.7
40°	1070.4	1101.1	1136.7	1118.9	1088.2	1086.6	1093.1	1117.3	1141.6	1112.5	1080.1
42.5°	984.7	1023.5	1073.7	1064.0	1030.0	1025.2	1030.0	1060.7	1080.1	1042.9	1007.4
45°	900.6	949.2	1009.0	1009.0	971.8	966.9	968.6	1009.0	1020.3	976.6	931.4
47.5°	829.5	882.9	945.9	945.9	915.2	905.5	913.6	955.6	963.7	902.3	860.2
50°	761.6	819.8	889.3	884.5	863.5	855.4	869.9	915.2	905.5	837.6	793.9
52.5°	675.9	737.3	832.7	837.6	826.3	827.9	845.7	874.8	847.3	764.8	727.6
55°	598.3	661.3	756.7	782.6	782.6	781.0	789.1	811.7	789.1	690.4	645.2
57.5°	514.2	567.6	646.8	653.3	658.1	640.3	651.6	682.4	671.0	587.0	561.1
60°	422.0	467.3	512.6	517.4	496.4	459.2	480.2	515.8	523.9	460.8	431.7
62.5°	299.1	342.8	396.2	396.2	375.1	337.9	365.4	396.2	384.8	320.2	302.4
65°	223.1	263.6	304.0	321.8	304.0	278.1	299.1	321.8	304.0	250.6	224.8
67.5°	143.9	171.4	195.7	210.2	213.4	210.2	219.9	213.4	192.4	156.8	142.3
70°	87.3	101.9	114.8	127.7	137.4	142.3	147.1	132.6	111.6	92.2	87.3
72.5°	63.1	76.0	87.3	97.0	108.3	111.6	111.6	101.9	82.5	64.7	59.8
75°	43.7	55.0	64.7	71.1	80.8	84.1	84.1	76.0	61.4	46.9	42.0
77.5°	1.6	11.3	11.3	9.7	12.9	16.2	16.2	19.4	17.8	12.9	11.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	1806.1	1864.4	1880.5	1940.3	1993.7	2047.1	2111.7	2150.6	2208.8	2249.2	2271.8
5°	1628.3	1676.8	1735.0	1823.9	1916.1	2018.0	2140.9	2247.6	2381.8	2480.4	2512.8
7.5°	1498.9	1562.0	1629.9	1741.5	1867.6	2003.4	2176.4	2351.1	2556.4	2690.6	2776.3
10°	1474.7	1539.3	1629.9	1739.8	1872.4	2027.7	2239.5	2465.9	2723.0	2886.3	2983.3
12.5°	1591.1	1660.6	1699.4	1749.5	1849.8	2022.8	2294.5	2582.3	2884.7	3062.5	3166.0
15°	1762.5	1823.9	1760.9	1697.8	1762.5	1971.1	2325.2	2679.3	3026.9	3232.3	3339.0
17.5°	1880.5	1885.4	1747.9	1613.7	1631.5	1877.3	2336.5	2776.3	3178.9	3394.0	3505.6
20°	1869.2	1830.4	1691.3	1542.6	1487.6	1756.0	2323.6	2862.0	3332.6	3557.3	3667.3
22.5°	1781.9	1736.6	1618.6	1473.0	1366.3	1612.1	2300.9	2939.6	3473.2	3728.7	3832.2
25°	1676.8	1628.3	1531.3	1403.5	1288.7	1473.0	2283.1	3046.3	3651.1	3951.8	4032.7
27.5°	1553.9	1511.9	1429.4	1337.2	1256.4	1367.9	2278.3	3187.0	3866.1	4223.5	4280.1
30°	1434.2	1395.4	1330.8	1277.4	1243.4	1306.5	2262.1	3337.4	4123.2	4535.6	4597.0
32.5°	1319.4	1280.6	1240.2	1232.1	1233.7	1283.9	2207.1	3486.2	4428.8	4988.3	5033.6
35°	1220.8	1175.5	1159.4	1178.8	1214.3	1245.1	2051.9	3609.1	4757.1	5481.5	5518.7
37.5°	1127.0	1081.7	1080.1	1127.0	1165.8	1185.2	1869.2	3730.3	5200.1	5982.7	6029.6
40°	1041.3	996.0	1012.2	1068.8	1099.5	1109.2	1647.7	3914.7	5669.1	6511.5	6485.6
42.5°	968.6	921.7	931.4	1004.1	1031.6	1057.5	1443.9	4068.3	6120.2	7012.7	7004.7
45°	897.4	861.8	855.4	934.6	958.9	1062.3	1295.2	4186.3	6700.7	7651.4	7664.4
47.5°	827.9	800.4	802.0	836.0	895.8	1086.6	1169.1	4263.9	7543.1	8663.7	8438.9
50°	764.8	743.8	761.6	722.8	855.4	1055.9	1060.7	4247.7	8484.2	9633.8	9182.7
52.5°	695.3	690.4	698.5	604.7	790.7	931.4	958.9	4032.7	8925.6	10296.8	10039.7
55°	624.1	622.5	557.9	483.5	661.3	743.8	821.4	3364.9	8911.1	10649.3	10961.4
57.5°	540.1	527.1	423.6	394.5	514.2	517.4	748.7	2203.9	7897.2	9805.2	10452.0
60°	409.1	399.4	310.5	320.2	359.0	331.5	596.7	1097.9	5901.9	7638.5	8367.8
62.5°	283.0	270.0	231.2	247.4	231.2	189.2	365.4	543.3	3575.1	4823.4	5484.7
65°	207.0	192.4	158.5	135.8	108.3	108.3	139.1	208.6	1384.1	2050.3	2472.3
67.5°	127.7	121.3	93.8	67.9	66.3	71.1	72.8	103.5	223.1	355.7	435.0
70°	82.5	76.0	63.1	43.7	40.4	42.0	43.7	48.5	56.6	61.4	74.4
72.5°	56.6	53.4	45.3	24.3	19.4	21.0	22.6	22.6	27.5	25.9	30.7
75°	40.4	37.2	32.3	11.3	6.5	8.1	9.7	8.1	9.7	6.5	8.1
77.5°	11.3	11.3	8.1	1.6	0.0	1.6	3.2	3.2	1.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	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: P642439

CATALOG NUMBER: GWS-SA6C-830-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	2330.0	2367.2	2381.8	2360.8	2378.5	2349.4	2338.1	2294.5	2291.2	2283.1
5°	2643.7	2727.8	2777.9	2808.7	2773.1	2734.3	2676.1	2575.8	2545.1	2525.7
7.5°	2952.6	3083.5	3169.2	3209.7	3200.0	3120.7	3015.6	2847.5	2787.6	2758.5
10°	3221.0	3381.1	3484.5	3534.7	3513.6	3444.1	3293.7	3083.5	3004.3	2986.5
12.5°	3408.5	3555.7	3626.8	3670.5	3672.1	3644.6	3502.3	3290.5	3196.7	3174.1
15°	3526.6	3589.6	3591.3	3617.1	3662.4	3723.9	3657.6	3470.0	3369.7	3335.8
17.5°	3601.0	3531.4	3460.3	3466.8	3541.1	3704.5	3772.4	3628.5	3521.7	3484.5
20°	3654.3	3434.4	3301.8	3303.4	3379.4	3626.8	3851.6	3782.1	3672.1	3638.2
22.5°	3688.3	3348.7	3159.5	3154.7	3235.5	3534.7	3924.4	3964.8	3856.4	3817.6
25°	3757.8	3308.3	3073.8	3101.3	3172.5	3505.6	4023.0	4207.3	4107.1	4055.3
27.5°	3882.3	3348.7	3065.8	3128.8	3209.7	3591.3	4194.4	4530.7	4427.2	4369.0
30°	4097.4	3500.7	3190.3	3277.6	3374.6	3816.0	4482.2	4981.8	4833.1	4778.1
32.5°	4443.4	3816.0	3575.1	3762.7	3856.4	4184.7	4913.9	5488.0	5366.7	5256.7
35°	4920.4	4535.6	4508.1	4944.7	4922.0	4883.2	5444.3	6108.9	5926.2	5819.4
37.5°	5576.9	5693.3	5897.0	6330.4	6315.8	6019.9	6141.2	6695.8	6602.0	6464.6
40°	6396.7	6644.1	6990.1	7611.0	7417.0	7045.1	6996.6	7297.3	7221.3	7059.6
42.5°	6880.2	7307.0	7966.8	8524.6	8369.4	7719.4	7664.4	8101.0	7934.4	7758.2
45°	7104.9	7847.1	9140.7	9895.8	9425.2	8167.3	8146.2	9148.7	9055.0	8818.9
47.5°	7208.4	8392.0	10515.1	11658.3	10778.6	8560.2	8484.2	10668.7	10545.8	10267.7
50°	7323.2	9143.9	12170.8	13700.5	12413.4	9004.8	9059.8	12085.1	12033.4	11705.2
52.5°	7575.4	9939.4	14209.8	16035.4	14395.8	9701.7	10047.8	13420.8	13071.5	12693.1
55°	7953.8	10806.1	16331.3	18420.4	16418.6	10638.0	11116.6	14130.6	13150.7	12731.9
57.5°	7535.0	11022.8	17587.7	20085.9	17316.0	10641.2	10212.7	12900.1	11566.1	11160.2
60°	5979.5	10254.7	17104.2	19725.3	16551.2	9449.5	7819.6	10072.0	8762.3	8490.6
62.5°	4042.4	8600.6	15057.1	16682.2	14166.2	7433.2	5082.1	6550.3	5424.9	5200.1
65°	2215.2	6416.1	12166.0	12620.4	11087.5	5192.1	2614.6	2842.6	2165.1	2064.9
67.5°	611.2	4466.0	8951.5	8372.6	7779.2	3381.1	675.9	507.7	362.2	359.0
70°	153.6	2954.2	5363.4	5528.4	4770.0	2165.1	129.4	61.4	48.5	46.9
72.5°	64.7	1270.9	2545.1	2925.1	2441.6	1002.5	46.9	17.8	14.6	11.3
75°	8.1	101.9	216.7	328.2	224.8	108.3	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)