

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: P637878

Luminaire Tested: GWS-SA4D-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637878  
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-SA4D-760-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

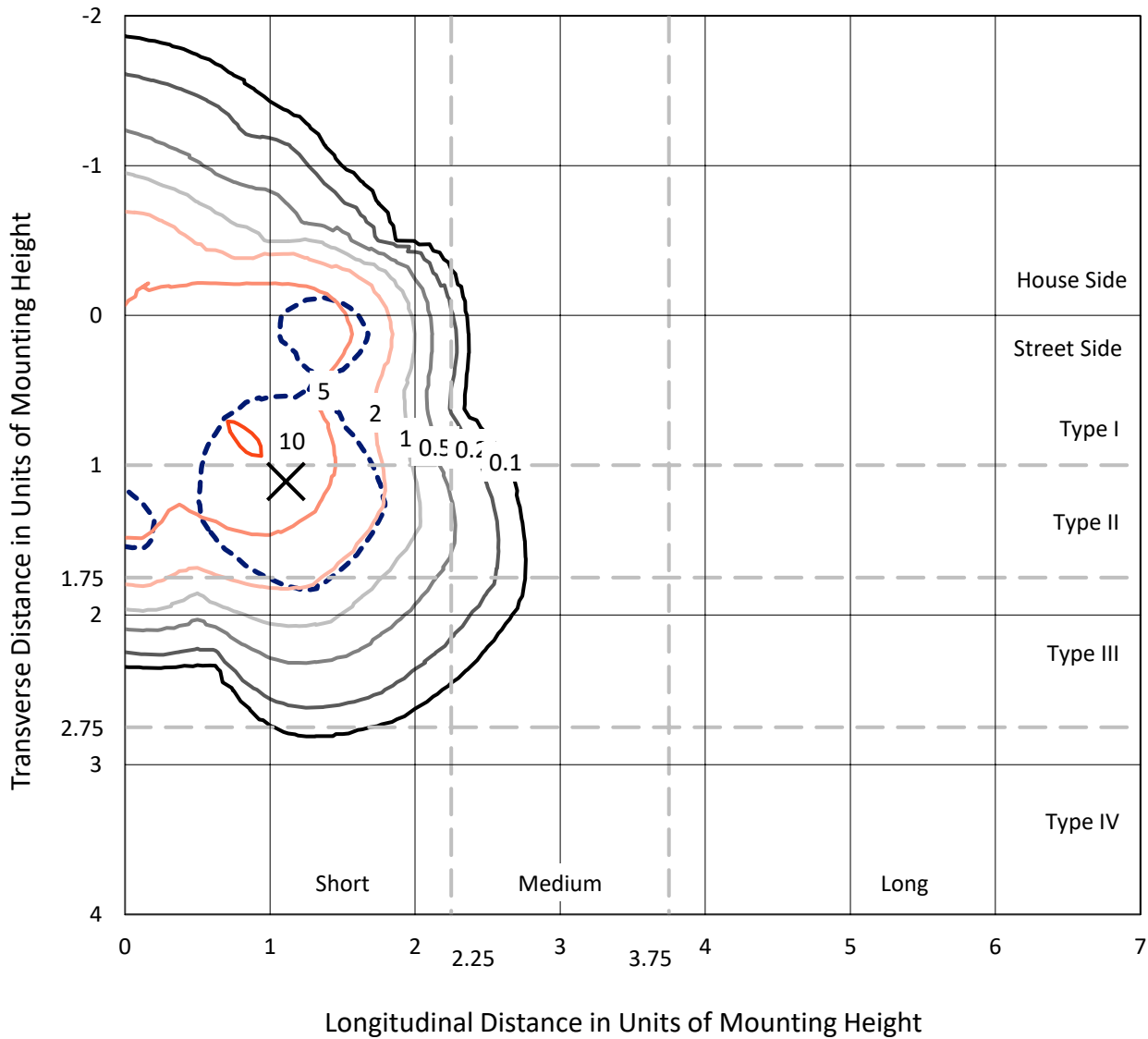
Lumens per Lamp: N/A  
Luminaire Lumens: 13181 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

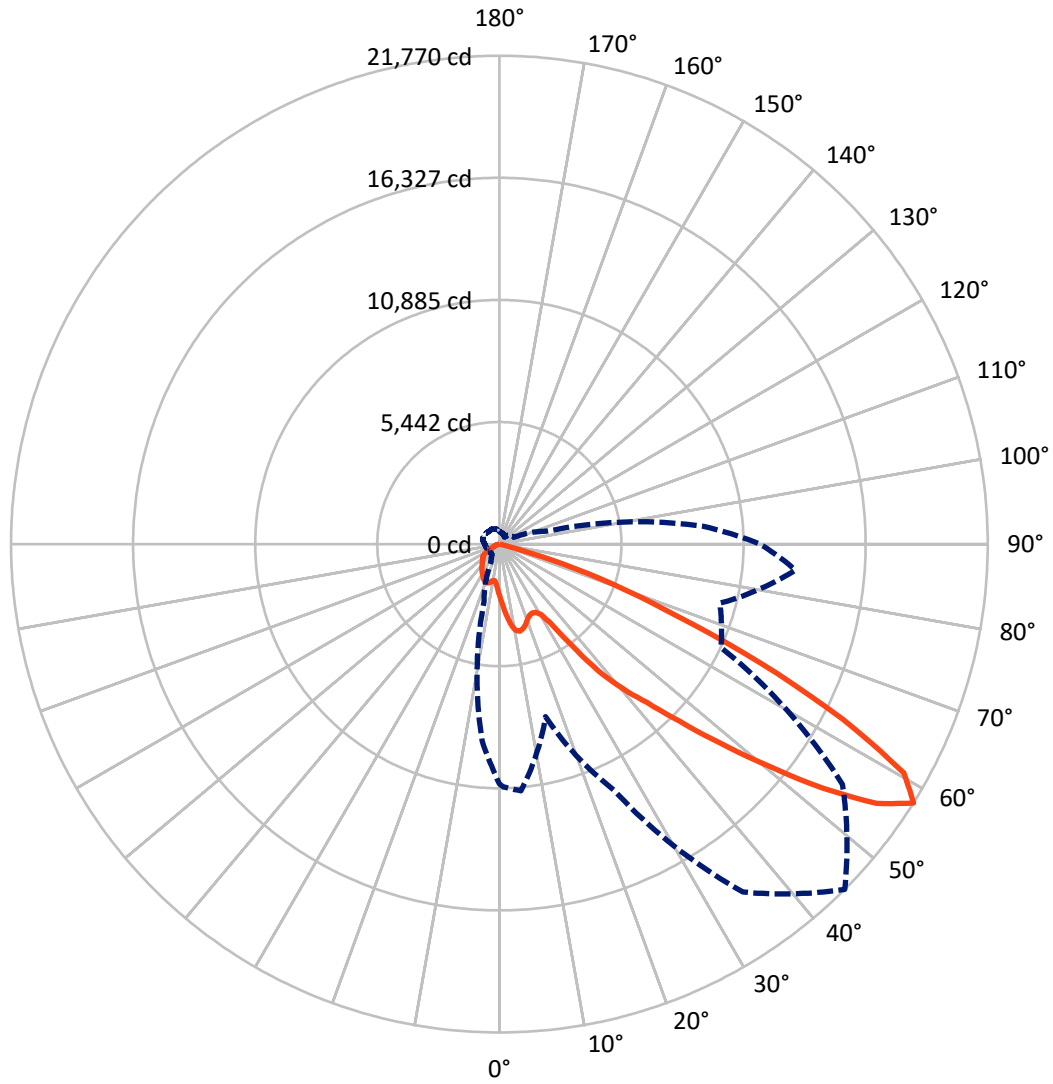
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.3 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
<b>House Side</b>	Lumens	2951.6	0.0	2951.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10229.4	0.0	10229.4
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13181.0	0.0	13181.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.9	1.7
10°-20°	737.3	5.6
20°-30°	1197.7	9.1
30°-40°	1850.6	14.0
40°-50°	2967.4	22.5
50°-60°	4055.6	30.8
60°-70°	1964.2	14.9
70°-80°	179.9	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°	13181.0	100.0
0°-180°	13181.0	100.0

**Coefficient of Utilization**



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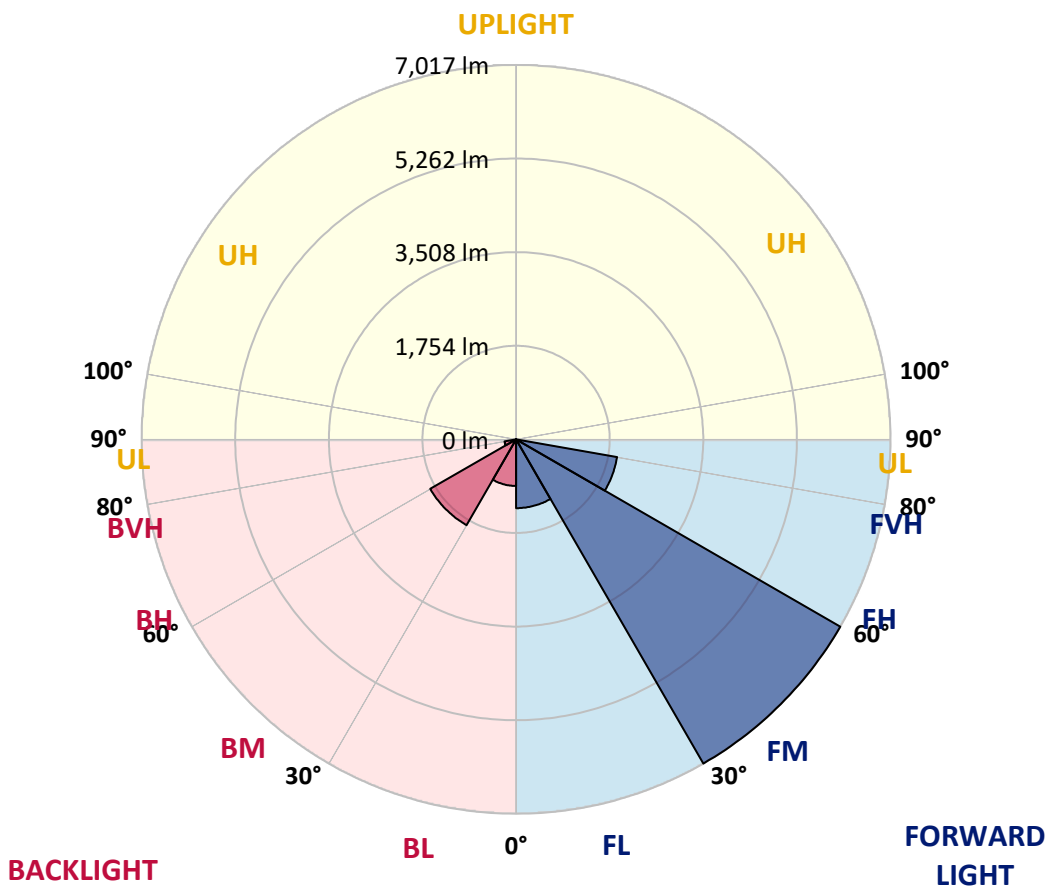
CATALOG NUMBER: GWS-SA4D-760-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.5	9.8			
FM (30°-60°)	7016.5	53.2			
FH (60°-80°)	1922.9	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	873.3	6.6	B2/1000		
BM (30°-60°)	1857.0	14.1	B2/2500		
BH (60°-80°)	221.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2509.8	2525.7	2552.3	2608.9	2656.8	2688.6	2702.8	2699.3	2679.8	2665.6	2637.3
5°	2779.0	2779.0	2830.3	2959.6	3058.8	3120.8	3152.7	3133.2	3094.2	3032.3	2936.6
7.5°	3014.5	3023.4	3110.2	3294.4	3444.9	3533.5	3584.9	3574.2	3505.2	3386.5	3195.2
10°	3198.7	3209.4	3324.5	3549.4	3726.6	3816.9	3893.1	3900.1	3824.0	3666.3	3446.7
12.5°	3377.6	3388.3	3508.7	3724.8	3880.7	3917.8	3985.2	4011.7	3992.2	3880.7	3652.2
15°	3570.7	3595.5	3698.2	3859.4	3924.9	3880.7	3924.9	3972.8	4038.3	4027.7	3822.2
17.5°	3760.2	3777.9	3882.4	3939.1	3866.5	3751.4	3772.6	3829.3	3978.1	4123.3	3990.5
20°	3935.6	3960.4	4047.1	3972.8	3753.1	3574.2	3576.0	3650.4	3877.1	4181.8	4162.3
22.5°	4119.8	4157.0	4218.9	4009.9	3648.6	3434.3	3443.2	3510.5	3797.4	4236.7	4357.1
25°	4360.6	4396.1	4436.8	4102.1	3615.0	3365.2	3398.9	3460.9	3797.4	4330.5	4598.0
27.5°	4686.5	4711.3	4713.1	4273.9	3673.4	3375.9	3446.7	3517.6	3910.8	4518.3	4920.3
30°	5095.7	5134.6	5083.3	4541.3	3855.9	3517.6	3622.1	3710.6	4155.2	4835.3	5395.0
32.5°	5593.4	5648.3	5579.2	4938.0	4236.7	4006.4	4195.9	4247.3	4544.8	5294.1	5933.4
35°	6177.9	6223.9	6149.5	5487.1	5125.8	5168.3	5511.9	5446.4	5327.7	5859.1	6562.2
37.5°	6819.0	6861.5	6718.1	6319.6	6440.0	6624.2	7173.3	6948.3	6565.8	6587.0	7244.1
40°	7407.1	7453.1	7228.2	7224.6	7472.6	7809.1	8471.5	8161.6	7640.9	7539.9	7883.5
42.5°	8016.4	8048.2	7844.6	7706.4	8269.6	8962.2	9663.6	9245.6	8352.9	8243.1	8684.1
45°	8886.0	8953.3	8590.2	7943.7	8987.0	10288.8	11266.5	10450.0	8838.2	8749.6	9909.7
47.5°	10164.8	10214.4	9474.0	8092.5	9654.7	11941.3	13269.7	12012.1	9265.0	9063.1	11585.3
50°	11222.2	11255.8	10287.0	8255.5	10364.9	13723.1	15552.7	13864.8	9745.0	9582.1	13149.2
52.5°	12001.5	12129.0	11355.0	8590.2	11298.4	15818.4	18080.2	16059.3	10494.2	10584.6	14445.7
55°	12162.7	12336.3	12084.8	8795.7	12120.2	17952.7	20414.6	18023.5	11241.7	11344.4	14881.4
57.5°	10689.1	10827.2	11036.2	7966.8	12100.7	18930.4	21769.6	18675.3	10901.6	10173.7	13250.2
60°	8007.5	8103.1	8482.2	6089.3	11128.3	18066.0	20713.9	17566.6	9532.5	7763.1	10095.7
62.5°	4748.5	4791.0	5271.0	3944.4	9236.7	15558.0	17178.7	15157.8	7532.8	5221.4	6183.2
65°	1822.5	1804.8	2171.5	1946.5	6792.5	12392.9	12777.3	11555.2	5168.3	2392.9	2357.4
67.5°	281.6	269.2	363.1	575.6	4899.1	8588.4	8430.8	8328.1	3237.7	557.9	487.1
70°	63.8	63.8	77.9	170.0	2993.3	5046.1	5400.3	5148.8	2072.3	118.7	63.8
72.5°	30.1	30.1	37.2	72.6	1084.0	2079.4	2423.0	2385.8	673.0	39.0	23.0
75°	10.6	12.4	12.4	15.9	65.5	108.0	248.0	177.1	42.5	0.0	0.0
77.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	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°	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2575.3	2562.9	2516.8	2454.9	2394.6	2341.5	2286.6	2221.1	2173.2	2118.3	2100.6
5°	2862.2	2784.3	2658.5	2527.5	2407.0	2304.3	2205.1	2098.8	2020.9	1943.0	1916.4
7.5°	3104.9	2989.8	2786.1	2589.5	2424.7	2279.5	2136.0	1990.8	1877.4	1785.3	1757.0
10°	3322.7	3189.9	2917.1	2674.5	2467.3	2299.0	2125.4	1943.0	1796.0	1686.2	1659.6
12.5°	3510.5	3356.4	3028.7	2738.2	2485.0	2291.9	2123.6	1978.4	1845.6	1719.8	1686.2
15°	3668.1	3498.1	3122.6	2780.8	2458.4	2203.3	2056.3	2033.3	2022.7	1884.5	1819.0
17.5°	3822.2	3630.9	3198.7	2800.2	2384.0	2047.5	1941.2	2045.7	2157.3	2067.0	1983.7
20°	3983.4	3765.5	3276.7	2803.8	2260.0	1872.1	1854.4	2019.1	2160.8	2132.5	2054.6
22.5°	4172.9	3933.8	3374.1	2802.0	2104.2	1723.4	1790.7	1967.8	2082.9	2081.1	2019.1
25°	4447.4	4146.3	3505.2	2812.6	1934.1	1608.2	1719.8	1881.0	1974.9	1971.3	1920.0
27.5°	4741.4	4399.6	3675.2	2839.2	1788.9	1540.9	1636.6	1762.3	1843.8	1840.3	1796.0
30°	5154.1	4691.9	3838.1	2841.0	1684.4	1505.5	1544.5	1631.3	1709.2	1700.3	1666.7
32.5°	5655.4	5021.3	3974.5	2740.0	1618.9	1471.8	1448.8	1493.1	1553.3	1540.9	1532.1
35°	6261.1	5412.7	4091.4	2518.6	1517.9	1404.5	1342.6	1351.4	1393.9	1401.0	1397.5
37.5°	6951.9	5878.5	4236.7	2226.4	1381.5	1307.1	1223.9	1216.8	1241.6	1264.6	1282.3
40°	7633.8	6402.8	4433.3	1930.6	1257.5	1183.1	1103.4	1085.7	1096.4	1137.1	1174.3
42.5°	8400.7	7010.3	4645.8	1677.3	1172.5	1046.8	970.6	937.0	967.1	1032.6	1076.9
45°	9505.9	7862.3	4853.0	1475.4	1137.1	926.3	823.6	820.1	853.7	938.7	988.3
47.5°	11057.5	8963.9	4989.4	1317.8	1135.3	832.5	710.2	731.5	770.5	853.7	910.4
50°	12570.1	10343.7	4838.9	1197.3	1098.1	770.5	625.2	667.7	706.7	779.3	837.8
52.5°	13482.2	11085.8	4252.6	1084.0	983.0	742.1	542.0	616.4	623.5	689.0	751.0
55°	13386.6	10605.8	3257.2	908.6	813.0	701.4	455.2	556.2	559.7	609.3	662.4
57.5°	11618.9	9105.6	2237.0	736.8	611.1	579.2	375.5	469.4	503.0	533.1	572.1
60°	8659.3	6643.7	997.2	598.7	387.9	391.4	320.6	354.2	405.6	441.0	474.7
62.5°	5102.8	3822.2	405.6	359.5	214.3	246.2	258.6	258.6	290.5	317.0	338.3
65°	1928.8	1337.2	164.7	180.7	111.6	115.1	152.3	187.7	212.5	235.6	263.9
67.5°	338.3	233.8	85.0	67.3	65.5	58.4	77.9	122.2	136.4	154.1	166.5
70°	56.7	47.8	35.4	33.7	30.1	31.9	51.4	86.8	95.6	101.0	106.3
72.5°	15.9	14.2	10.6	8.9	7.1	8.9	31.9	67.3	70.8	74.4	79.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.4	47.8	51.4	53.1	58.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	14.2	17.7	14.2
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°	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2090.0	2054.6	2035.1	2024.5	2024.5	2010.3	1994.3	1989.0	2012.1	2012.1	2051.0
5°	1882.8	1854.4	1822.5	1803.1	1773.0	1778.3	1760.6	1758.8	1781.8	1792.4	1833.2
7.5°	1739.3	1703.9	1684.4	1672.0	1656.1	1649.0	1633.0	1627.7	1640.1	1657.8	1696.8
10°	1643.7	1638.3	1636.6	1645.4	1645.4	1636.6	1622.4	1613.5	1617.1	1650.7	1695.0
12.5°	1668.5	1679.1	1682.6	1696.8	1703.9	1696.8	1686.2	1689.7	1712.7	1774.7	1840.3
15°	1776.5	1767.6	1764.1	1771.2	1776.5	1769.4	1765.9	1792.4	1872.1	1960.7	2035.1
17.5°	1891.6	1834.9	1810.1	1810.1	1813.7	1810.1	1813.7	1865.1	1994.3	2082.9	2137.8
20°	1950.1	1845.6	1806.6	1797.7	1804.8	1806.6	1819.0	1877.4	2019.1	2081.1	2093.5
22.5°	1932.4	1801.3	1757.0	1749.9	1757.0	1764.1	1776.5	1826.1	1958.9	1990.8	1985.5
25°	1843.8	1714.5	1679.1	1679.1	1695.0	1693.2	1698.6	1734.0	1843.8	1863.3	1854.4
27.5°	1732.2	1610.0	1579.9	1597.6	1611.8	1608.2	1610.0	1640.1	1721.6	1726.9	1718.0
30°	1618.9	1512.6	1484.2	1505.5	1525.0	1521.4	1523.2	1553.3	1604.7	1599.4	1587.0
32.5°	1503.7	1425.8	1404.5	1416.9	1447.1	1443.5	1450.6	1482.5	1502.0	1478.9	1464.8
35°	1397.5	1356.7	1340.8	1347.9	1370.9	1376.2	1388.6	1409.9	1409.9	1381.5	1356.7
37.5°	1298.3	1293.0	1282.3	1273.5	1294.7	1310.7	1328.4	1353.2	1317.8	1277.0	1254.0
40°	1206.2	1229.2	1215.0	1192.0	1204.4	1227.4	1262.9	1282.3	1239.8	1199.1	1160.1
42.5°	1121.2	1160.1	1154.8	1126.5	1137.1	1158.4	1199.1	1215.0	1165.4	1119.4	1082.2
45°	1039.7	1094.6	1098.1	1062.7	1073.3	1094.6	1142.4	1147.7	1084.0	1034.4	1007.8
47.5°	968.8	1029.1	1030.8	1004.3	1007.8	1037.9	1082.2	1084.0	1011.3	965.3	931.6
50°	901.5	970.6	975.9	952.9	956.4	991.9	1029.1	1022.0	944.0	896.2	866.1
52.5°	820.1	913.9	926.3	915.7	929.9	958.2	981.2	956.4	866.1	818.3	791.7
55°	731.5	853.7	880.3	873.2	889.1	912.2	917.5	901.5	788.2	740.4	715.6
57.5°	628.8	703.2	749.2	735.0	747.4	770.5	786.4	774.0	689.0	651.8	630.5
60°	520.7	570.3	580.9	557.9	547.3	588.0	625.2	609.3	536.7	513.6	488.8
62.5°	380.8	437.5	444.6	414.5	402.1	446.3	478.2	462.3	382.6	357.8	338.3
65°	304.6	357.8	371.9	343.6	336.5	370.2	389.7	350.7	294.0	267.4	246.2
67.5°	200.1	242.7	279.8	278.1	263.9	274.5	260.4	228.5	187.7	173.6	159.4
70°	124.0	148.8	171.8	180.7	178.9	175.3	155.9	132.8	120.4	115.1	108.0
72.5°	95.6	120.4	138.2	143.5	145.2	139.9	124.0	102.7	90.3	83.2	77.9
75°	70.8	90.3	104.5	111.6	115.1	111.6	95.6	81.5	69.1	63.8	58.4
77.5°	24.8	30.1	37.2	40.7	39.0	37.2	33.7	33.7	26.6	24.8	21.3
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



REPORT NUMBER: P637878

CATALOG NUMBER: GWS-SA4D-760-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7	2316.7
2.5°	2095.3	2127.2	2185.6	2238.8	2295.4	2353.9	2417.7	2483.2	2513.3	2509.8
5°	1895.2	1964.2	2059.9	2164.4	2281.3	2407.0	2547.0	2690.4	2752.4	2779.0
7.5°	1769.4	1866.8	1992.6	2125.4	2279.5	2458.4	2669.2	2894.1	2984.4	3014.5
10°	1785.3	1898.7	2003.2	2132.5	2297.2	2529.2	2791.4	3058.8	3165.1	3198.7
12.5°	1914.6	1939.4	1967.8	2074.1	2281.3	2582.4	2903.0	3221.8	3344.0	3377.6
15°	2031.5	1916.4	1863.3	1960.7	2224.6	2619.6	3016.3	3397.1	3531.7	3570.7
17.5°	2036.9	1863.3	1744.6	1820.8	2132.5	2635.5	3127.9	3576.0	3723.0	3760.2
20°	1971.3	1804.8	1652.5	1654.3	2006.7	2632.0	3220.0	3737.2	3901.9	3935.6
22.5°	1875.7	1735.8	1578.1	1523.2	1872.1	2624.9	3321.0	3909.0	4087.9	4119.8
25°	1769.4	1647.2	1507.3	1424.0	1737.5	2632.0	3462.7	4133.9	4330.5	4360.6
27.5°	1654.3	1549.8	1452.4	1385.1	1624.2	2658.5	3632.7	4420.9	4654.7	4686.5
30°	1533.8	1455.9	1416.9	1376.2	1553.3	2665.6	3816.9	4755.6	5051.4	5095.7
32.5°	1415.2	1372.7	1374.4	1381.5	1486.0	2616.0	3985.2	5127.6	5522.5	5593.4
35°	1305.4	1293.0	1328.4	1363.8	1388.6	2488.5	4132.2	5566.8	6105.3	6177.9
37.5°	1211.5	1222.1	1266.4	1301.8	1282.3	2307.8	4327.0	6115.9	6757.0	6819.0
40°	1121.2	1147.7	1199.1	1215.0	1200.9	2097.1	4560.8	6645.5	7322.1	7407.1
42.5°	1037.9	1057.4	1130.0	1133.6	1177.8	1882.8	4785.7	7215.8	7972.1	8016.4
45°	970.6	967.1	1041.5	1064.5	1207.9	1645.4	5005.4	7975.6	8822.2	8886.0
47.5°	905.1	901.5	919.2	1023.7	1220.3	1425.8	5223.2	9087.9	10055.0	10164.8
50°	843.1	848.4	793.5	1004.3	1153.0	1257.5	5322.4	10117.0	11176.1	11222.2
52.5°	788.2	768.7	673.0	940.5	1009.6	1098.1	5040.8	10584.6	11870.4	12001.5
55°	710.2	602.2	554.4	763.4	797.0	958.2	4128.6	10313.6	11930.7	12162.7
57.5°	607.5	472.9	471.1	563.2	563.2	889.1	2644.4	8811.6	10281.7	10689.1
60°	467.6	366.6	389.7	391.4	361.3	648.3	1484.2	6383.3	7601.9	8007.5
62.5°	333.0	279.8	294.0	233.8	207.2	324.1	712.0	3675.2	4691.9	4748.5
65°	223.2	189.5	154.1	129.3	127.5	138.2	294.0	1328.4	1615.3	1822.5
67.5°	147.0	115.1	81.5	81.5	92.1	92.1	111.6	219.6	308.2	281.6
70°	95.6	79.7	51.4	49.6	60.2	60.2	56.7	60.2	63.8	63.8
72.5°	70.8	60.2	30.1	26.6	33.7	35.4	31.9	30.1	30.1	30.1
75°	53.1	42.5	17.7	12.4	15.9	21.3	17.7	12.4	12.4	10.6
77.5°	21.3	15.9	7.1	5.3	8.9	12.4	10.6	5.3	3.5	3.5
80°	1.8	3.5	3.5	3.5	5.3	7.1	8.9	3.5	1.8	1.8
82.5°	0.0	1.8	1.8	1.8	3.5	5.3	7.1	3.5	1.8	1.8
85°	0.0	0.0	0.0	0.0	3.5	5.3	3.5	1.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.3	3.5	1.8	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)