

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: P637713

Luminaire Tested: GWS-SA4D-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637713  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

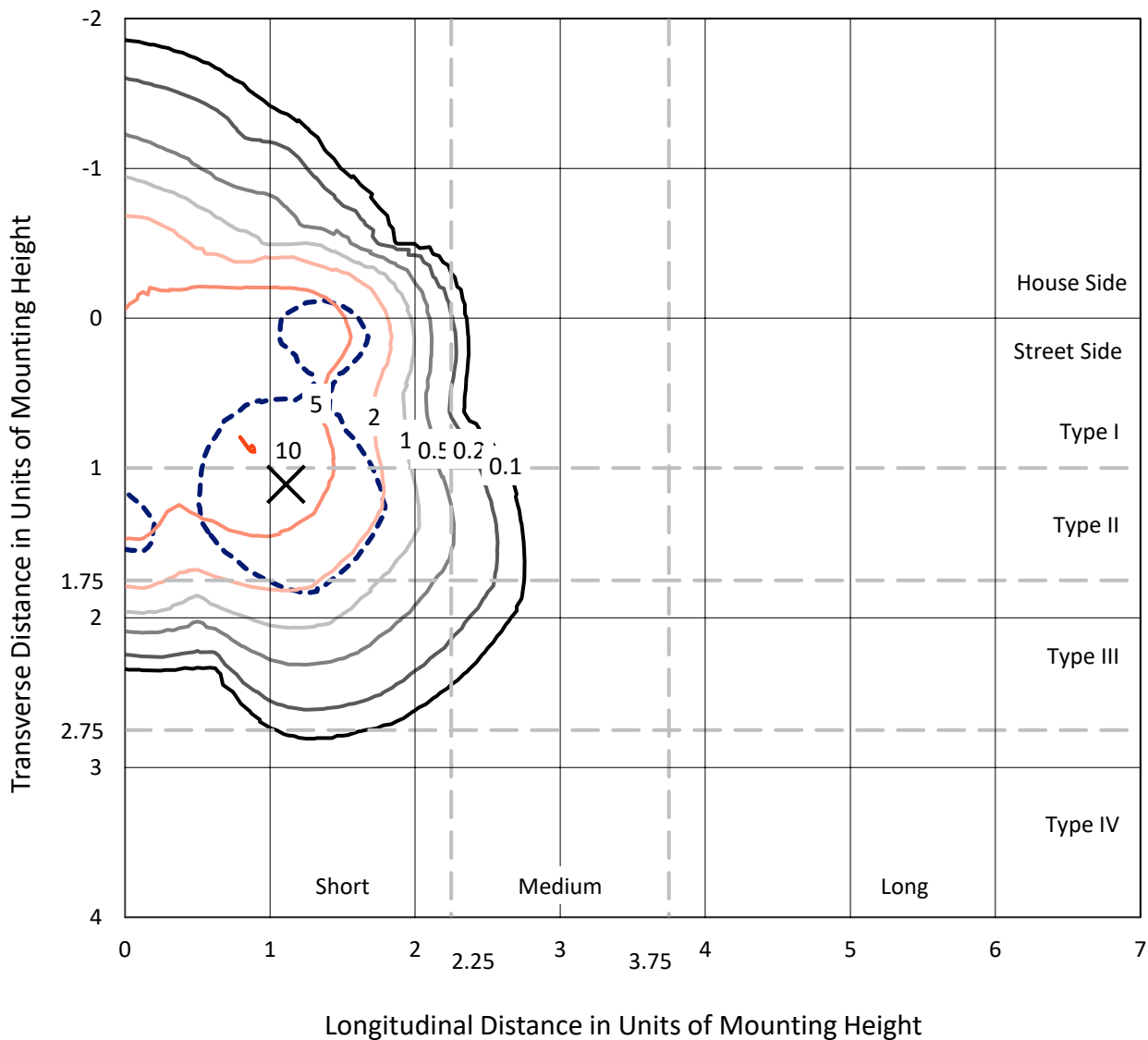
Lumens per Lamp: N/A  
Luminaire Lumens: 12885.7 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

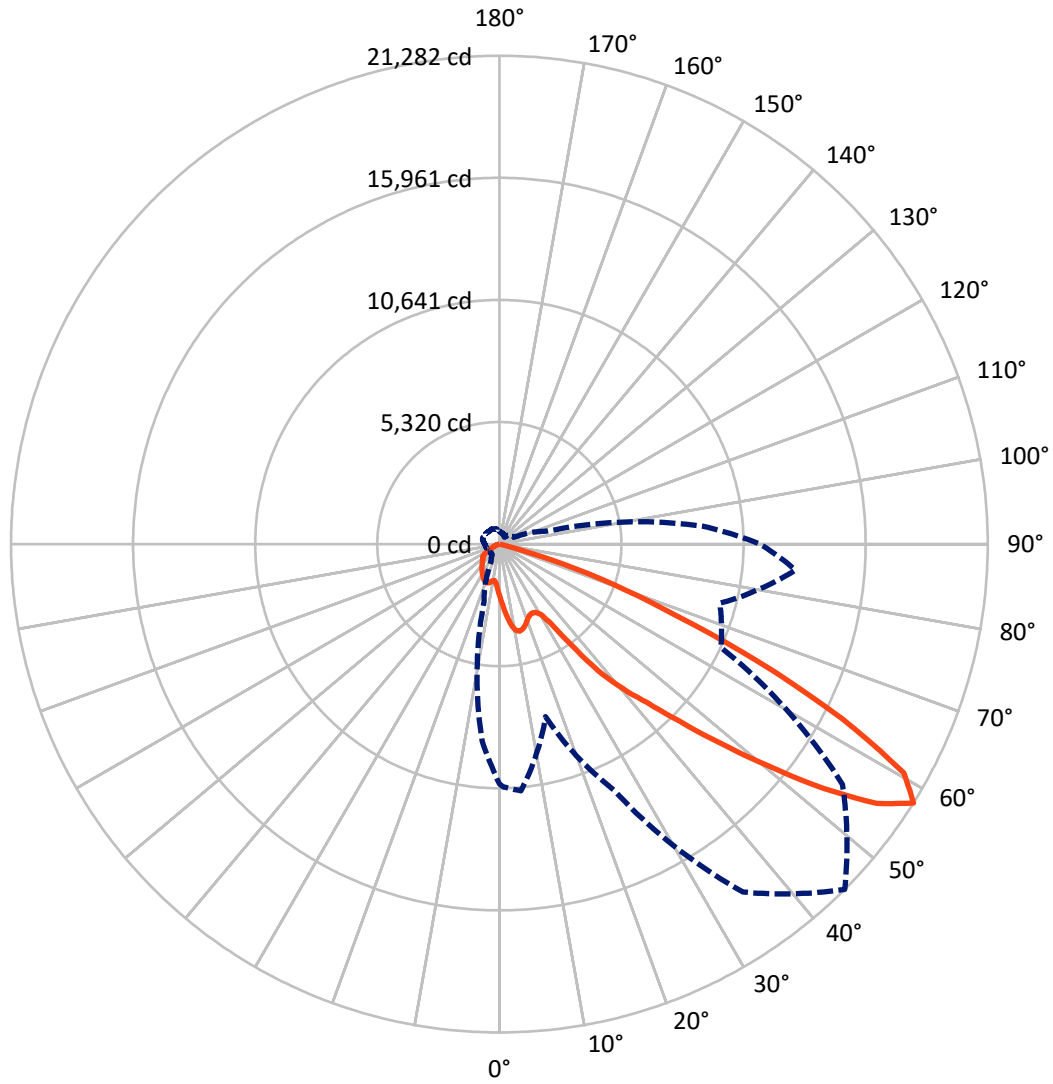
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 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	2885.5	0.0	2885.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10000.2	0.0	10000.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	12885.7	0.0	12885.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.8	1.7
10°-20°	720.8	5.6
20°-30°	1170.8	9.1
30°-40°	1809.1	14.0
40°-50°	2900.9	22.5
50°-60°	3964.7	30.8
60°-70°	1920.2	14.9
70°-80°	175.8	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°	12885.7	100.0
0°-180°	12885.7	100.0

**Coefficient of Utilization**



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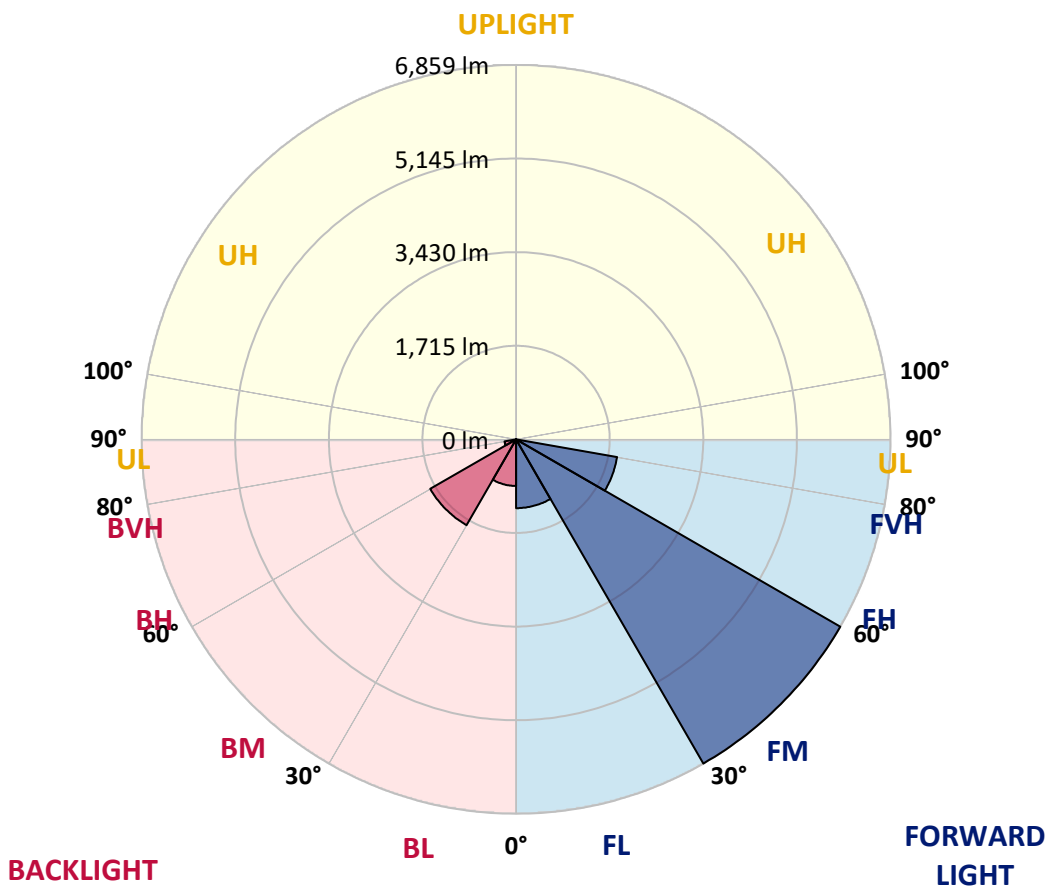
CATALOG NUMBER: GWS-SA4D-735-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.6	9.8			
FM (30°-60°)	6859.3	53.2			
FH (60°-80°)	1879.8	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	853.8	6.6	B2/1000		
BM (30°-60°)	1815.4	14.1	B2/2500		
BH (60°-80°)	216.3	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°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2453.5	2469.1	2495.1	2550.5	2597.2	2628.4	2642.3	2638.8	2619.8	2605.9	2578.2
5°	2716.7	2716.7	2766.9	2893.3	2990.3	3050.9	3082.1	3063.0	3024.9	2964.3	2870.8
7.5°	2947.0	2955.7	3040.5	3220.6	3367.8	3454.3	3504.6	3494.2	3426.6	3310.6	3123.6
10°	3127.1	3137.5	3250.0	3469.9	3643.1	3731.4	3805.8	3812.8	3738.3	3584.2	3369.5
12.5°	3302.0	3312.4	3430.1	3641.3	3793.7	3830.1	3895.9	3921.8	3902.8	3793.7	3570.3
15°	3490.7	3514.9	3615.4	3772.9	3837.0	3793.7	3837.0	3883.8	3947.8	3937.4	3736.6
17.5°	3676.0	3693.3	3795.4	3850.9	3779.9	3667.3	3688.1	3743.5	3888.9	4030.9	3901.1
20°	3847.4	3871.6	3956.5	3883.8	3669.0	3494.2	3495.9	3568.6	3790.3	4088.1	4069.0
22.5°	4027.5	4063.8	4124.4	3920.1	3566.9	3357.4	3366.0	3431.8	3712.3	4141.7	4259.5
25°	4262.9	4297.6	4337.4	4010.2	3534.0	3289.8	3322.7	3383.3	3712.3	4233.5	4495.0
27.5°	4581.5	4605.8	4607.5	4178.1	3591.1	3300.2	3369.5	3438.8	3823.1	4417.1	4810.1
30°	4981.5	5019.6	4969.4	4439.6	3769.5	3438.8	3540.9	3627.5	4062.1	4727.0	5274.1
32.5°	5468.1	5521.7	5454.2	4827.4	4141.7	3916.6	4101.9	4152.1	4443.0	5175.4	5800.5
35°	6039.5	6084.5	6011.8	5364.2	5011.0	5052.5	5388.4	5324.4	5208.3	5727.8	6415.2
37.5°	6666.3	6707.8	6567.6	6178.0	6295.7	6475.8	7012.6	6792.7	6418.7	6439.4	7081.8
40°	7241.1	7286.1	7066.2	7062.8	7305.2	7634.2	8281.8	7978.7	7469.7	7371.0	7706.9
42.5°	7836.8	7867.9	7668.8	7533.8	8084.4	8761.4	9447.1	9038.4	8165.7	8058.4	8489.5
45°	8686.9	8752.7	8397.8	7765.8	8785.6	10058.3	11014.1	10215.8	8640.2	8553.6	9687.7
47.5°	9937.1	9985.6	9261.8	7911.2	9438.4	11673.8	12972.4	11743.0	9057.5	8860.1	11325.7
50°	10970.8	11003.7	10056.5	8070.5	10132.7	13415.7	15204.3	13554.2	9526.7	9367.4	12854.6
52.5°	11732.6	11857.3	11100.6	8397.8	11045.2	15464.0	17675.1	15699.5	10259.1	10347.4	14122.1
55°	11890.2	12059.9	11814.0	8598.6	11848.6	17550.5	19957.3	17619.7	10989.8	11090.2	14548.1
57.5°	10449.6	10584.7	10789.0	7788.3	11829.6	18506.3	21281.8	18256.9	10657.4	9945.7	12953.3
60°	7828.1	7921.6	8292.1	5952.9	10879.0	17661.3	20249.9	17173.0	9318.9	7589.2	9869.5
62.5°	4642.1	4683.7	5152.9	3856.0	9029.8	15209.5	16793.8	14818.2	7364.1	5104.5	6044.7
65°	1781.7	1764.4	2122.8	1902.9	6640.3	12115.3	12491.0	11296.3	5052.5	2339.3	2304.6
67.5°	275.3	263.2	355.0	562.7	4789.3	8396.0	8241.9	8141.5	3165.2	545.4	476.2
70°	62.3	62.3	76.2	166.2	2926.2	4933.0	5279.3	5033.5	2025.9	116.0	62.3
72.5°	29.4	29.4	36.4	71.0	1059.7	2032.8	2368.7	2332.3	658.0	38.1	22.5
75°	10.4	12.1	12.1	15.6	64.1	105.6	242.4	173.1	41.6	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°	1.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2517.6	2505.5	2460.5	2399.9	2341.0	2289.0	2235.4	2171.3	2124.5	2070.9	2053.6
5°	2798.1	2721.9	2599.0	2470.8	2353.1	2252.7	2155.7	2051.8	1975.6	1899.5	1873.5
7.5°	3035.3	2922.8	2723.6	2531.5	2370.4	2228.4	2088.2	1946.2	1835.4	1745.4	1717.6
10°	3248.3	3118.4	2851.8	2614.6	2412.0	2247.5	2077.8	1899.5	1755.7	1648.4	1622.4
12.5°	3431.8	3281.2	2960.9	2676.9	2429.3	2240.6	2076.1	1934.1	1804.2	1681.3	1648.4
15°	3585.9	3419.7	3052.6	2718.5	2403.3	2154.0	2010.3	1987.8	1977.4	1842.3	1778.2
17.5°	3736.6	3549.6	3127.1	2737.5	2330.6	2001.6	1897.7	1999.9	2109.0	2020.7	1939.3
20°	3894.1	3681.2	3203.3	2741.0	2209.4	1830.2	1812.9	1973.9	2112.4	2084.7	2008.5
22.5°	4079.4	3845.7	3298.5	2739.2	2057.0	1684.7	1750.5	1923.7	2036.2	2034.5	1973.9
25°	4347.8	4053.4	3426.6	2749.6	1890.8	1572.2	1681.3	1838.9	1930.6	1927.2	1876.9
27.5°	4635.2	4301.0	3592.9	2775.6	1748.8	1506.4	1599.9	1722.8	1802.5	1799.0	1755.7
30°	5038.7	4586.7	3752.2	2777.3	1646.7	1471.8	1509.9	1594.7	1670.9	1662.2	1629.3
32.5°	5528.7	4908.8	3885.5	2678.6	1582.6	1438.9	1416.4	1459.7	1518.5	1506.4	1497.7
35°	6120.8	5291.5	3999.8	2462.2	1483.9	1373.1	1312.5	1321.1	1362.7	1369.6	1366.2
37.5°	6796.1	5746.8	4141.7	2176.5	1350.6	1277.8	1196.5	1189.5	1213.8	1236.3	1253.6
40°	7462.8	6259.4	4333.9	1887.3	1229.4	1156.6	1078.7	1061.4	1071.8	1111.6	1148.0
42.5°	8212.5	6853.3	4541.7	1639.7	1146.3	1023.3	948.9	916.0	945.4	1009.5	1052.8
45°	9293.0	7686.1	4744.3	1442.3	1111.6	905.6	805.1	801.7	834.6	917.7	966.2
47.5°	10809.7	8763.1	4877.6	1288.2	1109.9	813.8	694.3	715.1	753.2	834.6	890.0
50°	12288.4	10112.0	4730.5	1170.5	1073.5	753.2	611.2	652.8	690.9	761.9	819.0
52.5°	13180.2	10837.4	4157.3	1059.7	961.0	725.5	529.8	602.6	609.5	673.6	734.2
55°	13086.7	10368.2	3184.2	888.3	794.8	685.7	445.0	543.7	547.2	595.6	647.6
57.5°	11358.6	8901.6	2186.9	720.3	597.4	566.2	367.1	458.8	491.7	521.2	559.3
60°	8465.3	6494.9	974.8	585.2	379.2	382.7	313.4	346.3	396.5	431.1	464.0
62.5°	4988.4	3736.6	396.5	351.5	209.5	240.7	252.8	252.8	284.0	309.9	330.7
65°	1885.6	1307.3	161.0	176.6	109.1	112.5	148.9	183.5	207.8	230.3	258.0
67.5°	330.7	228.6	83.1	65.8	64.1	57.1	76.2	119.5	133.3	150.6	162.8
70°	55.4	46.8	34.6	32.9	29.4	31.2	50.2	84.8	93.5	98.7	103.9
72.5°	15.6	13.9	10.4	8.7	6.9	8.7	31.2	65.8	69.3	72.7	77.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	46.8	50.2	51.9	57.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	13.9	17.3	13.9
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°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2043.2	2008.5	1989.5	1979.1	1979.1	1965.3	1949.7	1944.5	1967.0	1967.0	2005.1
5°	1840.6	1812.9	1781.7	1762.7	1733.2	1738.4	1721.1	1719.4	1741.9	1752.3	1792.1
7.5°	1700.3	1665.7	1646.7	1634.5	1619.0	1612.0	1596.4	1591.2	1603.4	1620.7	1658.8
10°	1606.8	1601.6	1599.9	1608.6	1608.6	1599.9	1586.1	1577.4	1580.9	1613.8	1657.0
12.5°	1631.1	1641.5	1644.9	1658.8	1665.7	1658.8	1648.4	1651.8	1674.4	1735.0	1799.0
15°	1736.7	1728.0	1724.6	1731.5	1736.7	1729.8	1726.3	1752.3	1830.2	1916.8	1989.5
17.5°	1849.2	1793.8	1769.6	1769.6	1773.1	1769.6	1773.1	1823.3	1949.7	2036.2	2089.9
20°	1906.4	1804.2	1766.1	1757.5	1764.4	1766.1	1778.2	1835.4	1973.9	2034.5	2046.6
22.5°	1889.1	1760.9	1717.6	1710.7	1717.6	1724.6	1736.7	1785.2	1915.0	1946.2	1941.0
25°	1802.5	1676.1	1641.5	1641.5	1657.0	1655.3	1660.5	1695.1	1802.5	1821.5	1812.9
27.5°	1693.4	1573.9	1544.5	1561.8	1575.7	1572.2	1573.9	1603.4	1683.0	1688.2	1679.6
30°	1582.6	1478.7	1451.0	1471.8	1490.8	1487.4	1489.1	1518.5	1568.7	1563.5	1551.4
32.5°	1470.0	1393.9	1373.1	1385.2	1414.6	1411.2	1418.1	1449.3	1468.3	1445.8	1431.9
35°	1366.2	1326.3	1310.7	1317.7	1340.2	1345.4	1357.5	1378.3	1378.3	1350.6	1326.3
37.5°	1269.2	1264.0	1253.6	1244.9	1265.7	1281.3	1298.6	1322.9	1288.2	1248.4	1225.9
40°	1179.2	1201.7	1187.8	1165.3	1177.4	1199.9	1234.6	1253.6	1212.0	1172.2	1134.1
42.5°	1096.0	1134.1	1128.9	1101.2	1111.6	1132.4	1172.2	1187.8	1139.3	1094.3	1057.9
45°	1016.4	1070.1	1073.5	1038.9	1049.3	1070.1	1116.8	1122.0	1059.7	1011.2	985.2
47.5°	947.1	1006.0	1007.7	981.8	985.2	1014.7	1057.9	1059.7	988.7	943.7	910.8
50°	881.3	948.9	954.1	931.5	935.0	969.6	1006.0	999.1	922.9	876.1	846.7
52.5°	801.7	893.5	905.6	895.2	909.0	936.7	959.3	935.0	846.7	800.0	774.0
55°	715.1	834.6	860.6	853.6	869.2	891.7	896.9	881.3	770.5	723.8	699.5
57.5°	614.7	687.4	732.4	718.6	730.7	753.2	768.8	756.7	673.6	637.2	616.4
60°	509.1	557.5	567.9	545.4	535.0	574.9	611.2	595.6	524.6	502.1	477.9
62.5°	372.3	427.7	434.6	405.2	393.1	436.3	467.5	451.9	374.0	349.8	330.7
65°	297.8	349.8	363.6	335.9	329.0	361.9	380.9	342.8	287.4	261.5	240.7
67.5°	195.7	237.2	273.6	271.8	258.0	268.4	254.5	223.4	183.5	169.7	155.8
70°	121.2	145.4	168.0	176.6	174.9	171.4	152.4	129.9	117.7	112.5	105.6
72.5°	93.5	117.7	135.1	140.3	142.0	136.8	121.2	100.4	88.3	81.4	76.2
75°	69.3	88.3	102.2	109.1	112.5	109.1	93.5	79.6	67.5	62.3	57.1
77.5°	24.2	29.4	36.4	39.8	38.1	36.4	32.9	32.9	26.0	24.2	20.8
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: P637713

CATALOG NUMBER: GWS-SA4D-735-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8	2264.8
2.5°	2048.4	2079.5	2136.7	2188.6	2244.0	2301.2	2363.5	2427.6	2457.0	2453.5
5°	1852.7	1920.2	2013.7	2115.9	2230.2	2353.1	2489.9	2630.1	2690.7	2716.7
7.5°	1729.8	1825.0	1947.9	2077.8	2228.4	2403.3	2609.4	2829.3	2917.6	2947.0
10°	1745.4	1856.2	1958.3	2084.7	2245.8	2472.6	2728.8	2990.3	3094.2	3127.1
12.5°	1871.7	1896.0	1923.7	2027.6	2230.2	2524.5	2837.9	3149.6	3269.1	3302.0
15°	1986.0	1873.5	1821.5	1916.8	2174.8	2560.9	2948.7	3321.0	3452.6	3490.7
17.5°	1991.2	1821.5	1705.5	1780.0	2084.7	2576.5	3057.8	3495.9	3639.6	3676.0
20°	1927.2	1764.4	1615.5	1617.2	1961.8	2573.0	3147.9	3653.5	3814.5	3847.4
22.5°	1833.7	1696.9	1542.8	1489.1	1830.2	2566.1	3246.6	3821.4	3996.3	4027.5
25°	1729.8	1610.3	1473.5	1392.1	1698.6	2573.0	3385.1	4041.3	4233.5	4262.9
27.5°	1617.2	1515.1	1419.8	1354.0	1587.8	2599.0	3551.3	4321.8	4550.4	4581.5
30°	1499.5	1423.3	1385.2	1345.4	1518.5	2605.9	3731.4	4649.1	4938.2	4981.5
32.5°	1383.5	1341.9	1343.6	1350.6	1452.7	2557.4	3895.9	5012.7	5398.8	5468.1
35°	1276.1	1264.0	1298.6	1333.3	1357.5	2432.8	4039.6	5442.1	5968.5	6039.5
37.5°	1184.3	1194.7	1238.0	1272.7	1253.6	2256.1	4230.1	5978.9	6605.7	6666.3
40°	1096.0	1122.0	1172.2	1187.8	1174.0	2050.1	4458.6	6496.6	7158.0	7241.1
42.5°	1014.7	1033.7	1104.7	1108.2	1151.4	1840.6	4678.5	7054.1	7793.5	7836.8
45°	948.9	945.4	1018.1	1040.6	1180.9	1608.6	4893.2	7796.9	8624.6	8686.9
47.5°	884.8	881.3	898.6	1000.8	1193.0	1393.9	5106.2	8884.3	9829.7	9937.1
50°	824.2	829.4	775.7	981.8	1127.2	1229.4	5203.2	9890.3	10925.8	10970.8
52.5°	770.5	751.5	658.0	919.4	987.0	1073.5	4927.8	10347.4	11604.5	11732.6
55°	694.3	588.7	542.0	746.3	779.2	936.7	4036.1	10082.5	11663.4	11890.2
57.5°	593.9	462.3	460.6	550.6	550.6	869.2	2585.1	8614.2	10051.3	10449.6
60°	457.1	358.4	380.9	382.7	353.2	633.7	1451.0	6240.3	7431.6	7828.1
62.5°	325.5	273.6	287.4	228.6	202.6	316.9	696.1	3592.9	4586.7	4642.1
65°	218.2	185.3	150.6	126.4	124.7	135.1	287.4	1298.6	1579.1	1781.7
67.5°	143.7	112.5	79.6	79.6	90.0	90.0	109.1	214.7	301.3	275.3
70°	93.5	77.9	50.2	48.5	58.9	58.9	55.4	58.9	62.3	62.3
72.5°	69.3	58.9	29.4	26.0	32.9	34.6	31.2	29.4	29.4	29.4
75°	51.9	41.6	17.3	12.1	15.6	20.8	17.3	12.1	12.1	10.4
77.5°	20.8	15.6	6.9	5.2	8.7	12.1	10.4	5.2	3.5	3.5
80°	1.7	3.5	3.5	3.5	5.2	6.9	8.7	3.5	1.7	1.7
82.5°	0.0	1.7	1.7	1.7	3.5	5.2	6.9	3.5	1.7	1.7
85°	0.0	0.0	0.0	0.0	3.5	5.2	3.5	1.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	3.5	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)