

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: P639689

Luminaire Tested: GWS-SA5C-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639689  
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-SA5C-735-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

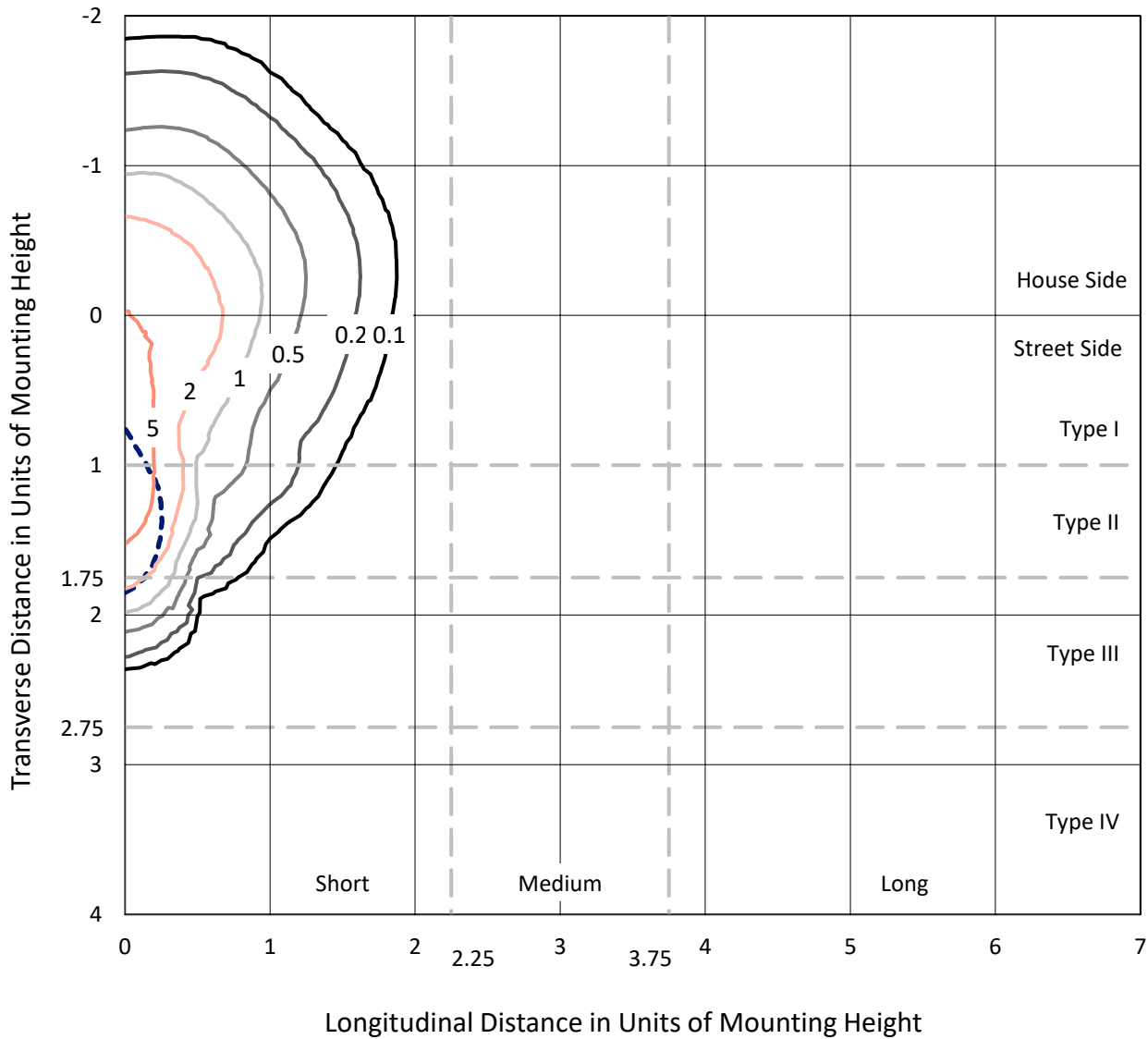
Lumens per Lamp: N/A  
Luminaire Lumens: 12593.7 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

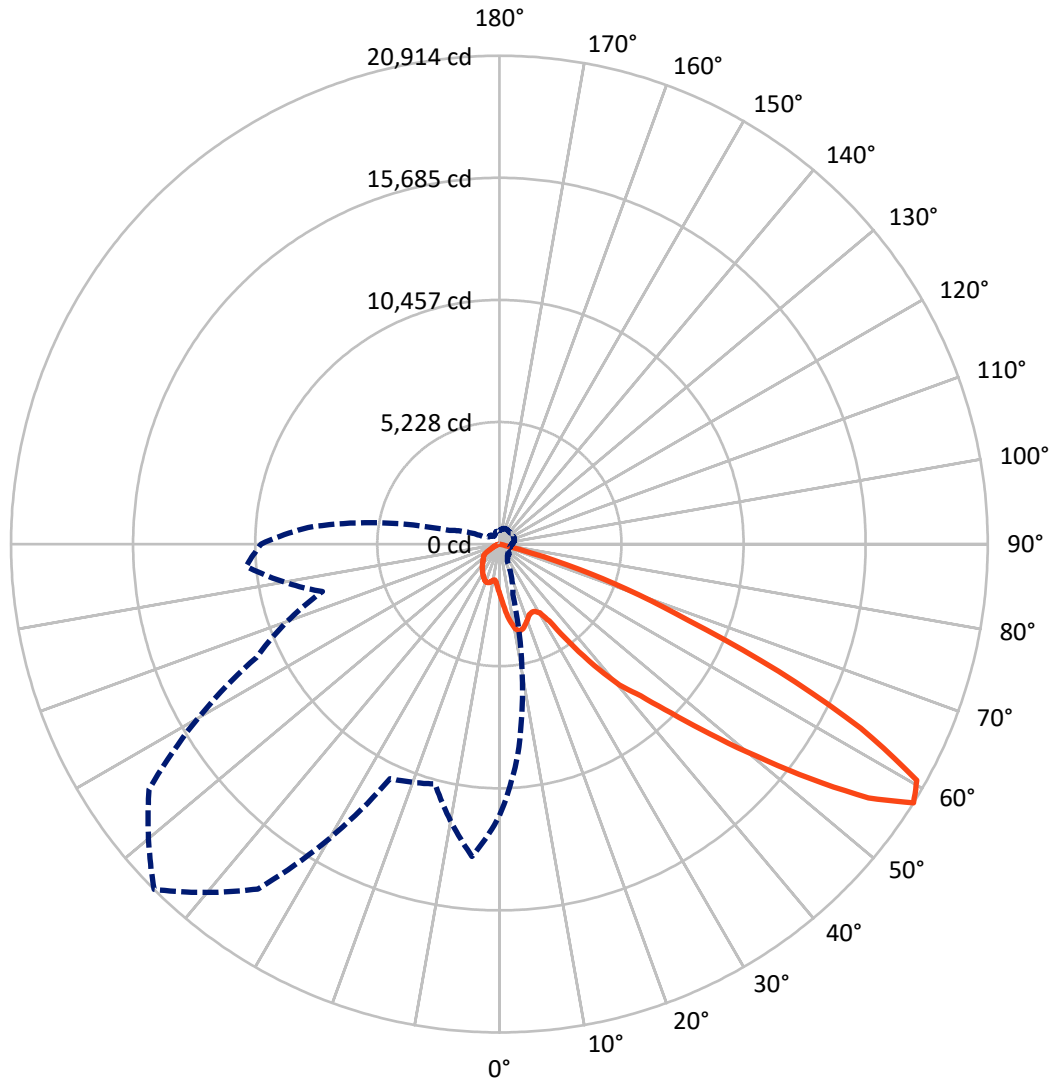
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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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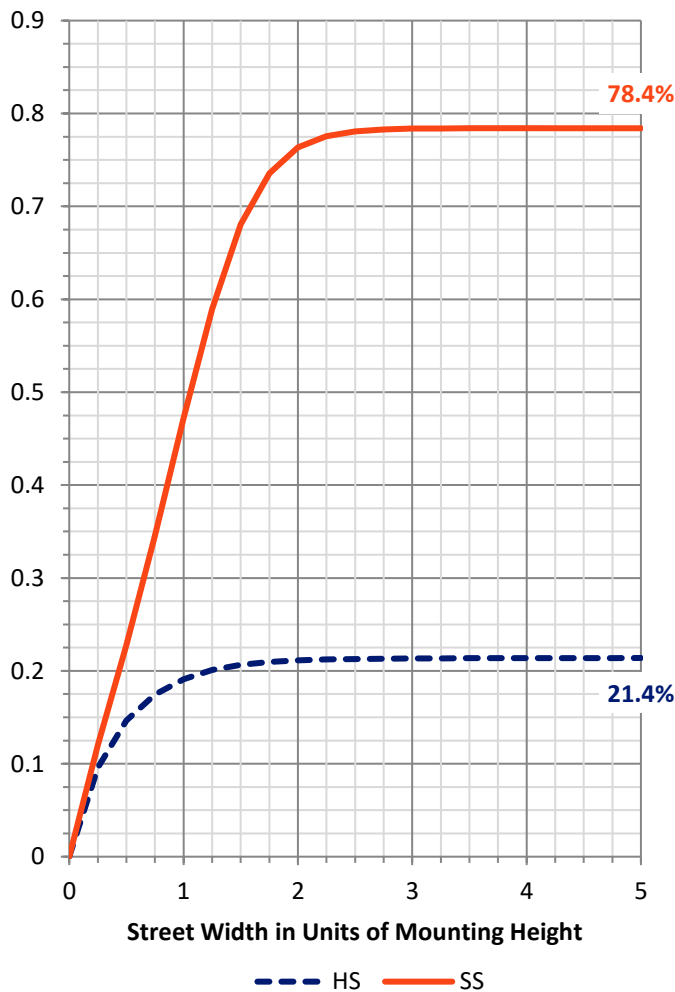
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2713.1	0.0	2713.1
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	9880.6	0.0	9880.6
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	12593.7	0.0	12593.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.5	1.7
10°-20°	695.9	5.5
20°-30°	1129.4	9.0
30°-40°	1733.4	13.8
40°-50°	2768.4	22.0
50°-60°	3876.2	30.8
60°-70°	1987.4	15.8
70°-80°	191.3	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°	12593.7	100.0
0°-180°	12593.7	100.0

**Coefficient of Utilization**



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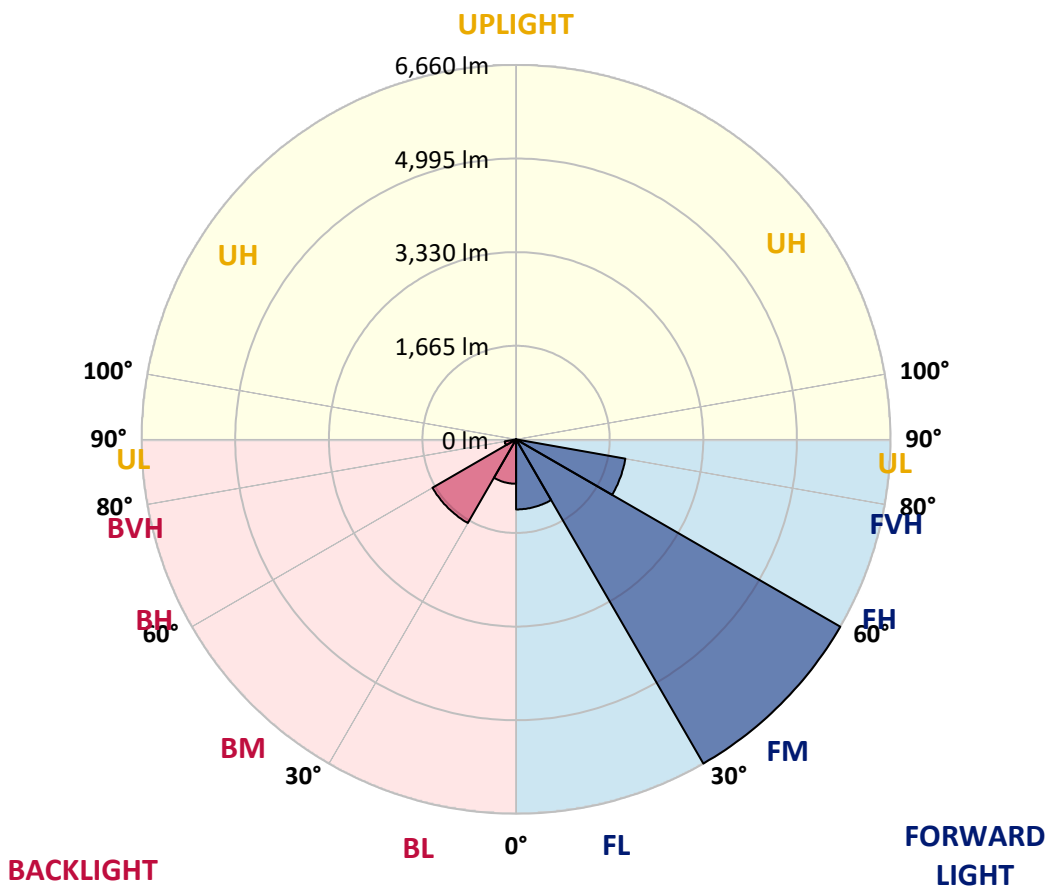
CATALOG NUMBER: GWS-SA5C-735-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1246.9	9.9			
FM (30°-60°)	6659.8	52.9			
FH (60°-80°)	1973.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	790.0	6.3	B2/1000		
BM (30°-60°)	1718.2	13.6	B2/2500		
BH (60°-80°)	204.9	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°	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9
2.5°	2377.2	2372.2	2355.4	2298.1	2262.8	2207.2	2166.8	2114.6	2057.4	2022.0	1986.6
5°	2629.8	2616.3	2570.9	2439.5	2338.5	2229.1	2141.5	2045.6	1942.9	1875.5	1813.2
7.5°	2872.2	2852.0	2791.4	2569.2	2416.0	2259.4	2134.8	1995.1	1850.3	1749.3	1671.8
10°	3109.6	3064.2	2968.2	2695.4	2488.4	2299.8	2153.3	1993.4	1823.3	1695.4	1609.5
12.5°	3304.9	3271.2	3139.9	2815.0	2549.0	2308.2	2128.1	1979.9	1865.4	1779.6	1700.4
15°	3473.3	3436.2	3311.6	2922.7	2601.2	2274.5	2022.0	1892.4	1910.9	1944.6	1877.2
17.5°	3628.2	3589.4	3454.7	3012.0	2621.4	2192.0	1873.8	1811.6	1914.3	2040.5	2015.3
20°	3788.1	3744.3	3579.3	3084.4	2614.6	2062.4	1724.0	1742.5	1887.3	2032.1	2045.6
22.5°	3975.0	3929.5	3737.6	3177.0	2609.6	1907.5	1594.4	1681.9	1836.8	1959.7	1983.3
25°	4222.5	4168.6	3958.1	3313.3	2623.0	1766.1	1501.8	1623.0	1750.9	1862.1	1875.5
27.5°	4549.1	4480.1	4212.4	3481.7	2651.7	1655.0	1461.4	1542.2	1641.5	1740.8	1752.6
30°	4975.0	4887.5	4503.6	3628.2	2638.2	1577.5	1434.4	1461.4	1520.3	1601.1	1602.8
32.5°	5473.4	5353.8	4830.2	3754.4	2522.0	1520.3	1397.4	1378.9	1392.3	1454.6	1466.4
35°	6059.3	5904.4	5190.5	3874.0	2309.9	1409.2	1330.0	1267.8	1262.7	1293.0	1321.6
37.5°	6731.0	6545.8	5645.1	4027.2	2059.0	1293.0	1230.7	1168.4	1141.5	1156.6	1200.4
40°	7350.6	7145.2	6119.9	4212.4	1803.1	1188.6	1114.5	1050.6	1018.6	1023.6	1077.5
42.5°	8077.9	7865.8	6700.7	4454.8	1591.0	1117.9	993.3	927.7	885.6	909.1	971.4
45°	9182.4	8941.6	7547.6	4665.3	1422.6	1101.1	887.3	794.7	774.5	814.9	888.9
47.5°	10690.9	10396.2	8710.9	4793.2	1279.5	1116.2	813.2	686.9	692.0	737.4	811.5
50°	12187.6	11869.4	10056.1	4624.9	1161.7	1085.9	776.1	602.7	634.7	675.1	742.5
52.5°	13216.3	12802.1	10711.1	4138.3	1053.9	971.4	772.8	523.6	584.2	597.7	654.9
55°	13256.7	12746.5	10376.0	3262.8	907.5	819.9	737.4	457.9	528.7	533.7	582.5
57.5°	11620.2	11158.9	9067.9	2240.9	806.4	601.0	587.6	400.7	434.4	476.5	506.8
60°	8840.6	8448.3	6781.5	1027.0	612.8	382.2	402.4	345.1	324.9	387.2	417.5
62.5°	5414.5	5163.6	4067.6	454.6	390.6	203.7	244.1	274.4	244.1	267.7	292.9
65°	2150.0	2038.8	1543.9	193.6	159.9	102.7	111.1	159.9	171.7	188.6	212.1
67.5°	373.8	353.6	259.3	85.9	65.7	62.3	53.9	74.1	104.4	116.2	134.7
70°	48.8	47.1	42.1	35.4	33.7	30.3	23.6	47.1	70.7	74.1	85.9
72.5°	11.8	10.1	10.1	8.4	10.1	3.4	3.4	25.3	50.5	52.2	60.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	32.0	35.4	42.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9
2.5°	1958.0	1924.4	1912.6	1895.7	1873.8	1880.6	1850.3	1840.2	1855.3	1875.5	1870.5
5°	1779.6	1742.5	1717.3	1678.5	1671.8	1656.7	1646.6	1633.1	1649.9	1673.5	1678.5
7.5°	1638.1	1606.2	1580.9	1569.1	1560.7	1554.0	1533.8	1523.7	1523.7	1533.8	1542.2
10°	1577.5	1554.0	1548.9	1552.3	1565.7	1564.1	1545.5	1532.1	1515.2	1506.8	1516.9
12.5°	1661.7	1623.0	1616.3	1617.9	1634.8	1633.1	1612.9	1596.1	1592.7	1596.1	1628.0
15°	1804.8	1745.9	1702.1	1693.7	1702.1	1698.8	1683.6	1673.5	1678.5	1727.4	1781.2
17.5°	1932.8	1841.9	1762.7	1732.4	1730.7	1725.7	1710.5	1707.2	1732.4	1823.3	1902.5
20°	1969.8	1880.6	1767.8	1729.1	1720.6	1715.6	1698.8	1703.8	1735.8	1845.2	1912.6
22.5°	1921.0	1835.1	1717.3	1678.5	1671.8	1670.1	1653.3	1660.0	1687.0	1782.9	1838.5
25°	1828.4	1756.0	1633.1	1599.4	1599.4	1596.1	1580.9	1584.3	1601.1	1685.3	1739.2
27.5°	1715.6	1646.6	1543.9	1510.2	1515.2	1520.3	1501.8	1496.7	1510.2	1589.3	1621.3
30°	1586.0	1537.1	1456.3	1426.0	1424.3	1444.5	1419.3	1412.5	1431.1	1493.4	1500.1
32.5°	1459.7	1436.1	1378.9	1355.3	1357.0	1360.3	1346.9	1346.9	1363.7	1397.4	1395.7
35°	1336.8	1321.6	1311.5	1294.7	1293.0	1286.3	1286.3	1289.6	1308.2	1319.9	1298.1
37.5°	1218.9	1234.1	1245.9	1229.0	1215.6	1215.6	1215.6	1230.7	1247.5	1242.5	1205.5
40°	1114.5	1146.5	1183.6	1165.1	1133.1	1131.4	1138.1	1163.4	1188.6	1158.3	1124.6
42.5°	1025.3	1065.7	1117.9	1107.8	1072.5	1067.4	1072.5	1104.4	1124.6	1085.9	1048.9
45°	937.8	988.3	1050.6	1050.6	1011.8	1006.8	1008.5	1050.6	1062.4	1016.9	969.8
47.5°	863.7	919.2	984.9	984.9	952.9	942.8	951.2	995.0	1003.4	939.4	895.7
50°	793.0	853.6	926.0	920.9	899.0	890.6	905.8	952.9	942.8	872.1	826.6
52.5°	703.7	767.7	867.1	872.1	860.3	862.0	880.5	910.8	882.2	796.3	757.6
55°	622.9	688.6	787.9	814.9	814.9	813.2	821.6	845.2	821.6	718.9	671.8
57.5°	535.4	590.9	673.4	680.2	685.2	666.7	678.5	710.5	698.7	611.1	584.2
60°	439.4	486.6	533.7	538.8	516.9	478.1	500.0	537.1	545.5	479.8	449.5
62.5°	311.5	356.9	412.5	412.5	390.6	351.9	380.5	412.5	400.7	333.4	314.8
65°	232.3	274.4	316.5	335.0	316.5	289.6	311.5	335.0	316.5	261.0	234.0
67.5°	149.8	178.5	203.7	218.9	222.2	218.9	229.0	222.2	200.3	163.3	148.2
70°	90.9	106.1	119.5	133.0	143.1	148.2	153.2	138.1	116.2	96.0	90.9
72.5°	65.7	79.1	90.9	101.0	112.8	116.2	116.2	106.1	85.9	67.3	62.3
75°	45.5	57.2	67.3	74.1	84.2	87.5	87.5	79.1	64.0	48.8	43.8
77.5°	1.7	11.8	11.8	10.1	13.5	16.8	16.8	20.2	18.5	13.5	11.8
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





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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9
2.5°	1880.6	1941.2	1958.0	2020.3	2075.9	2131.4	2198.8	2239.2	2299.8	2341.9	2365.5
5°	1695.4	1745.9	1806.5	1899.1	1995.1	2101.1	2229.1	2340.2	2479.9	2582.6	2616.3
7.5°	1560.7	1626.4	1697.1	1813.2	1944.6	2086.0	2266.1	2448.0	2661.8	2801.5	2890.7
10°	1535.4	1602.8	1697.1	1811.6	1949.6	2111.2	2331.8	2567.5	2835.2	3005.2	3106.2
12.5°	1656.7	1729.1	1769.5	1821.7	1926.0	2106.2	2389.0	2688.7	3003.5	3188.7	3296.5
15°	1835.1	1899.1	1833.4	1767.8	1835.1	2052.3	2421.0	2789.7	3151.7	3365.5	3476.6
17.5°	1958.0	1963.1	1820.0	1680.2	1698.8	1954.7	2432.8	2890.7	3310.0	3533.9	3650.0
20°	1946.2	1905.8	1761.0	1606.2	1548.9	1828.4	2419.3	2980.0	3469.9	3703.9	3818.4
22.5°	1855.3	1808.2	1685.3	1533.8	1422.6	1678.5	2395.8	3060.8	3616.4	3882.4	3990.1
25°	1745.9	1695.4	1594.4	1461.4	1341.8	1533.8	2377.2	3171.9	3801.6	4114.7	4198.9
27.5°	1617.9	1574.2	1488.3	1392.3	1308.2	1424.3	2372.2	3318.4	4025.5	4397.6	4456.5
30°	1493.4	1452.9	1385.6	1330.0	1294.7	1360.3	2355.4	3475.0	4293.2	4722.5	4786.5
32.5°	1373.8	1333.4	1291.3	1282.9	1284.6	1336.8	2298.1	3629.8	4611.4	5193.9	5241.0
35°	1271.1	1224.0	1207.1	1227.3	1264.4	1296.4	2136.5	3757.8	4953.2	5707.4	5746.1
37.5°	1173.5	1126.3	1124.6	1173.5	1213.9	1234.1	1946.2	3884.1	5414.5	6229.3	6278.1
40°	1084.2	1037.1	1053.9	1112.9	1144.8	1154.9	1715.6	4076.0	5902.7	6779.9	6752.9
42.5°	1008.5	959.7	969.8	1045.5	1074.1	1101.1	1503.5	4235.9	6372.4	7301.8	7293.4
45°	934.4	897.4	890.6	973.1	998.4	1106.1	1348.6	4358.8	6976.8	7966.8	7980.3
47.5°	862.0	833.4	835.1	870.4	932.7	1131.4	1217.2	4439.7	7854.0	9020.7	8786.7
50°	796.3	774.5	793.0	752.6	890.6	1099.4	1104.4	4422.8	8833.9	10030.9	9561.2
52.5°	723.9	718.9	727.3	629.7	823.3	969.8	998.4	4198.9	9293.5	10721.2	10453.5
55°	649.9	648.2	580.8	503.4	688.6	774.5	855.3	3503.6	9278.3	11088.2	11413.1
57.5°	562.3	548.9	441.1	410.8	535.4	538.8	779.5	2294.7	8222.7	10209.4	10882.8
60°	426.0	415.8	323.3	333.4	373.8	345.1	621.2	1143.2	6145.1	7953.3	8712.6
62.5°	294.6	281.2	240.8	257.6	240.8	197.0	380.5	565.7	3722.4	5022.2	5710.8
65°	215.5	200.3	165.0	141.4	112.8	112.8	144.8	217.2	1441.2	2134.8	2574.2
67.5°	133.0	126.3	97.6	70.7	69.0	74.1	75.8	107.8	232.3	370.4	452.9
70°	85.9	79.1	65.7	45.5	42.1	43.8	45.5	50.5	58.9	64.0	77.4
72.5°	58.9	55.6	47.1	25.3	20.2	21.9	23.6	23.6	28.6	26.9	32.0
75°	42.1	38.7	33.7	11.8	6.7	8.4	10.1	8.4	10.1	6.7	8.4
77.5°	11.8	11.8	8.4	1.7	0.0	1.7	3.4	3.4	1.7	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	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: P639689

CATALOG NUMBER: GWS-SA5C-735-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9	2139.9
2.5°	2426.1	2464.8	2479.9	2458.1	2476.6	2446.3	2434.5	2389.0	2385.7	2377.2
5°	2752.7	2840.2	2892.4	2924.4	2887.4	2847.0	2786.4	2682.0	2650.0	2629.8
7.5°	3074.3	3210.6	3299.9	3341.9	3331.8	3249.3	3139.9	2964.8	2902.5	2872.2
10°	3353.7	3520.4	3628.2	3680.4	3658.5	3586.1	3429.5	3210.6	3128.1	3109.6
12.5°	3549.0	3702.2	3776.3	3821.8	3823.5	3794.8	3646.7	3426.1	3328.5	3304.9
15°	3671.9	3737.6	3739.3	3766.2	3813.4	3877.3	3808.3	3613.0	3508.6	3473.3
17.5°	3749.4	3677.0	3602.9	3609.6	3687.1	3857.1	3927.8	3778.0	3666.9	3628.2
20°	3804.9	3576.0	3437.9	3439.6	3518.7	3776.3	4010.3	3937.9	3823.5	3788.1
22.5°	3840.3	3486.7	3289.8	3284.7	3368.9	3680.4	4086.1	4128.2	4015.4	3975.0
25°	3912.7	3444.6	3200.5	3229.1	3303.2	3650.0	4188.8	4380.7	4276.3	4222.5
27.5°	4042.3	3486.7	3192.1	3257.8	3341.9	3739.3	4367.3	4717.4	4609.7	4549.1
30°	4266.2	3645.0	3321.7	3412.7	3513.7	3973.3	4666.9	5187.2	5032.3	4975.0
32.5°	4626.5	3973.3	3722.4	3917.7	4015.4	4357.2	5116.5	5714.1	5587.9	5473.4
35°	5123.2	4722.5	4693.9	5148.5	5124.9	5084.5	5668.7	6360.6	6170.4	6059.3
37.5°	5806.7	5928.0	6140.1	6591.3	6576.1	6268.0	6394.3	6971.8	6874.1	6731.0
40°	6660.3	6917.9	7278.2	7924.7	7722.7	7335.4	7284.9	7598.1	7519.0	7350.6
42.5°	7163.7	7608.2	8295.1	8875.9	8714.3	8037.5	7980.3	8434.8	8261.4	8077.9
45°	7397.7	8170.5	9517.4	10303.6	9813.7	8503.9	8482.0	9525.8	9428.2	9182.4
47.5°	7505.5	8737.9	10948.5	12138.8	11222.9	8913.0	8833.9	11108.4	10980.4	10690.9
50°	7625.0	9520.8	12672.5	14265.1	12925.0	9376.0	9433.2	12583.2	12529.4	12187.6
52.5°	7887.7	10349.1	14795.5	16696.3	14989.1	10101.6	10461.9	13973.9	13610.2	13216.3
55°	8281.6	11251.5	17004.4	19179.6	17095.3	11076.4	11574.8	14713.0	13692.7	13256.7
57.5°	7845.6	11477.1	18312.5	20913.7	18029.7	11079.8	10633.6	13431.8	12042.8	11620.2
60°	6226.0	10677.4	17809.1	20538.2	17233.3	9839.0	8141.9	10487.1	9123.4	8840.6
62.5°	4209.0	8955.1	15677.7	17369.7	14750.0	7739.5	5291.6	6820.3	5648.5	5414.5
65°	2306.5	6680.5	12667.4	13140.5	11544.4	5406.0	2722.4	2959.8	2254.3	2150.0
67.5°	636.4	4650.1	9320.4	8717.7	8099.8	3520.4	703.7	528.7	377.1	373.8
70°	159.9	3075.9	5584.5	5756.2	4966.6	2254.3	134.7	64.0	50.5	48.8
72.5°	67.3	1323.3	2650.0	3045.6	2542.2	1043.8	48.8	18.5	15.2	11.8
75°	8.4	106.1	225.6	341.8	234.0	112.8	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)