

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: P632764

Luminaire Tested: GWS-SA2D-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SLR-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

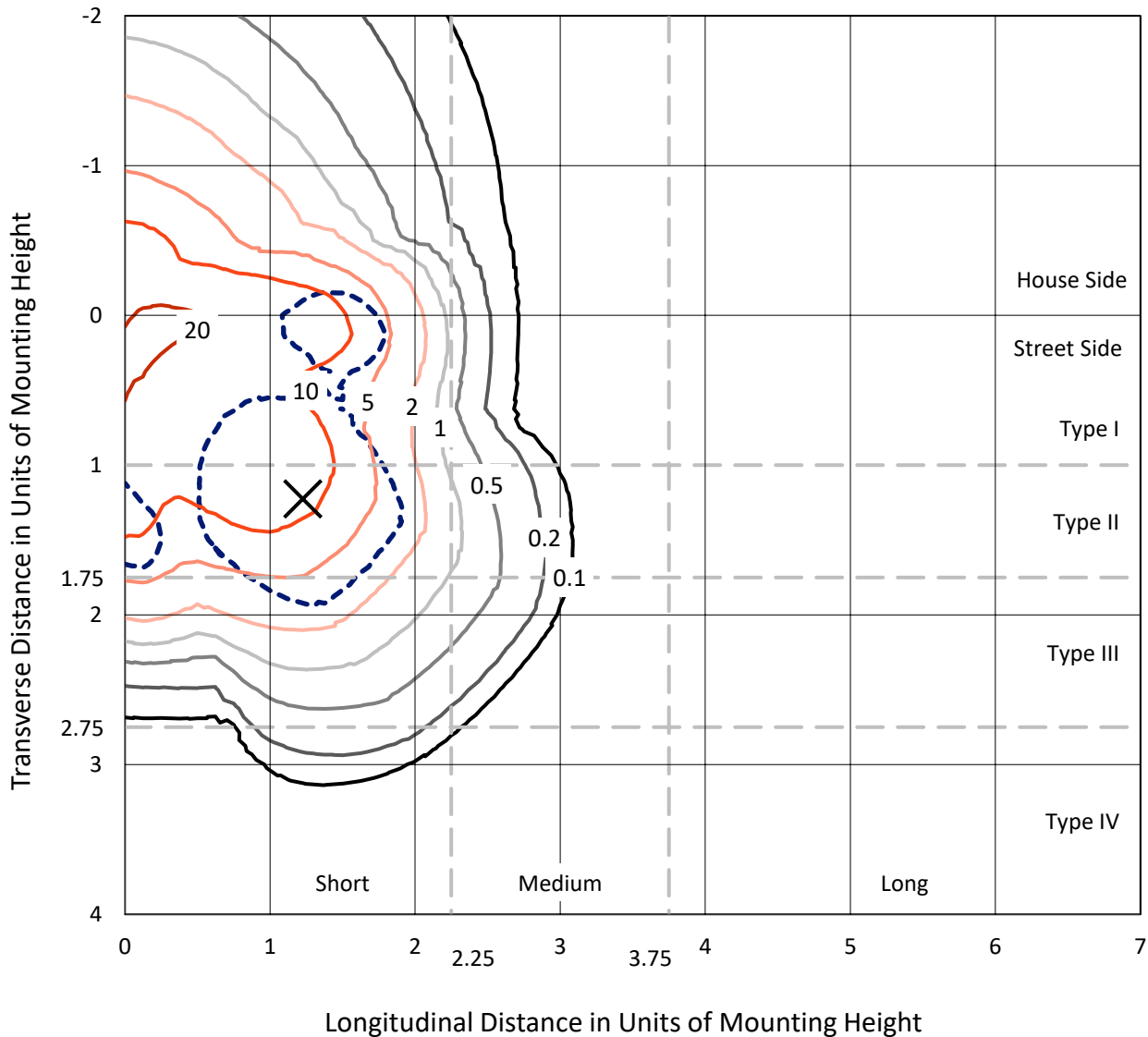
Lumens per Lamp: N/A  
Luminaire Lumens: 9010.1 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

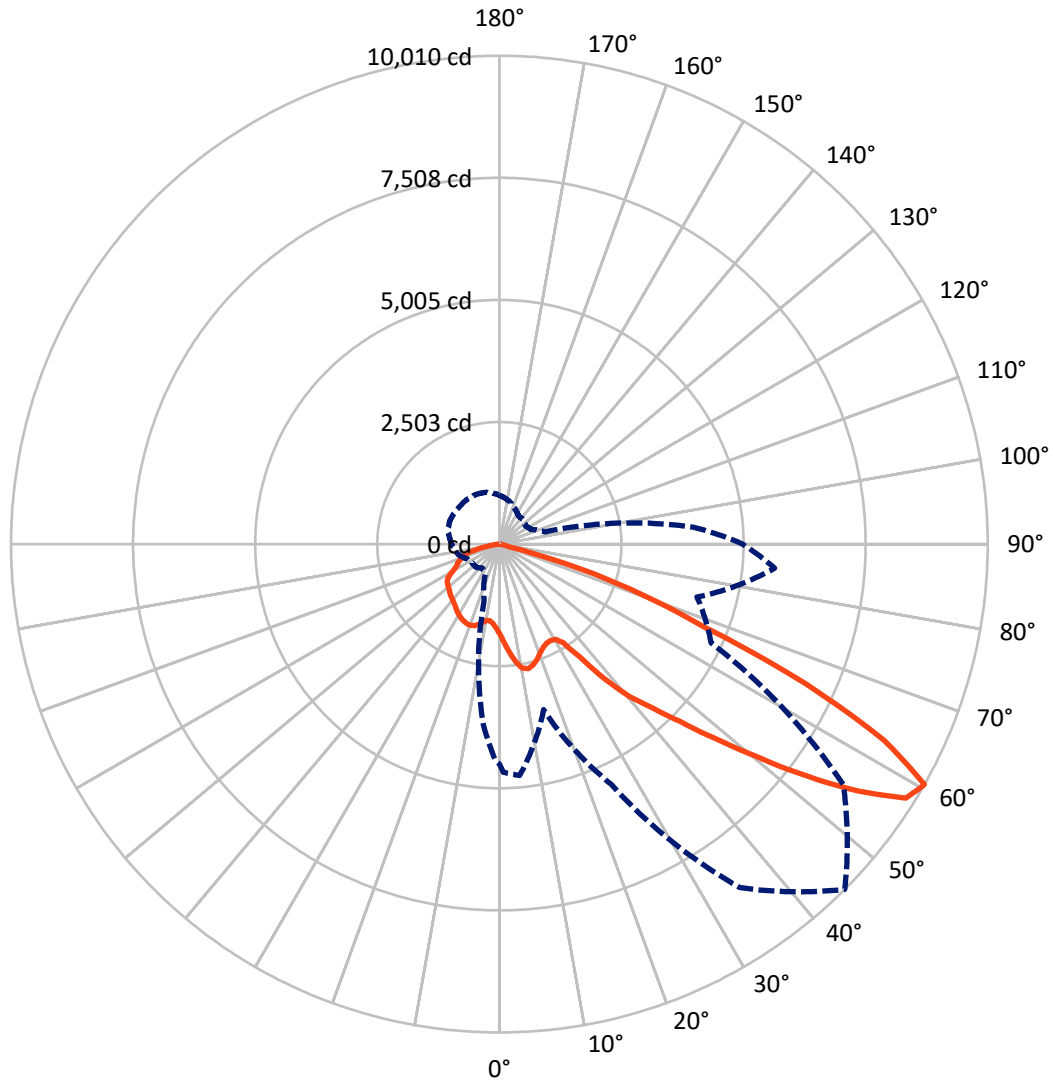
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3158.4	0.0	3158.4
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	5851.7	0.0	5851.7
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	9010.1	0.0	9010.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.6	2.0
10°-20°	570.7	6.3
20°-30°	927.0	10.3
30°-40°	1307.3	14.5
40°-50°	1806.7	20.1
50°-60°	2325.7	25.8
60°-70°	1473.6	16.4
70°-80°	378.1	4.2
80°-90°	40.4	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°	9010.1	100.0
0°-180°	9010.1	100.0

**Coefficient of Utilization**



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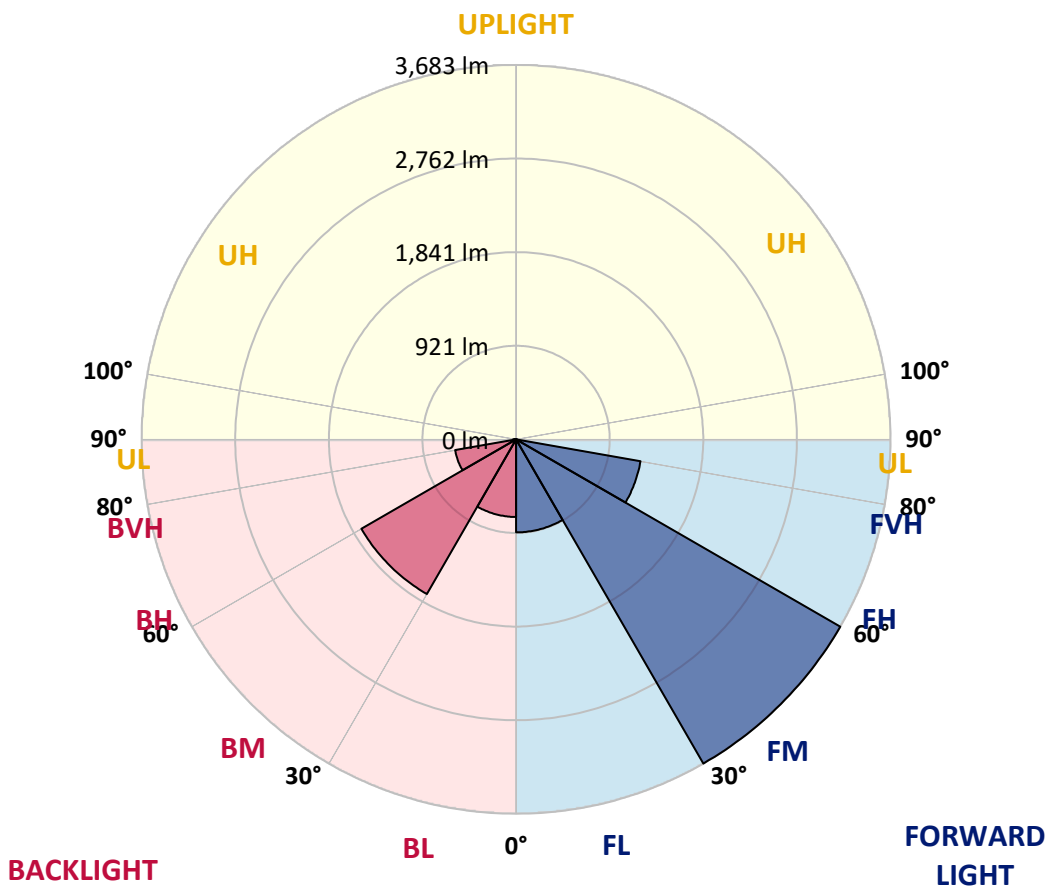
CATALOG NUMBER: GWS-SA2D-735-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.9	10.2			
FM (30°-60°)	3682.8	40.9			
FH (60°-80°)	1243.1	13.8			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	763.4	8.5	B2/1000		
BM (30°-60°)	1756.9	19.5	B2/2500		
BH (60°-80°)	608.6	6.8	B2/1000		G2/1000
BVH (80°-90°)	29.5	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°	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9
2.5°	1936.0	1949.2	1957.4	1973.1	2001.2	2016.9	2034.2	2015.2	2020.2	2017.7	1987.2
5°	2050.7	2066.4	2087.9	2134.1	2186.1	2215.0	2242.3	2238.1	2212.5	2169.6	2139.1
7.5°	2158.1	2176.2	2213.4	2288.5	2365.3	2409.9	2442.9	2421.4	2399.9	2332.2	2255.5
10°	2242.3	2253.0	2303.4	2404.1	2493.2	2543.6	2584.0	2579.1	2549.4	2473.4	2370.2
12.5°	2321.5	2328.9	2383.4	2484.2	2564.2	2586.5	2619.5	2630.3	2620.4	2563.4	2461.9
15°	2406.6	2420.6	2470.9	2547.7	2584.0	2560.9	2572.5	2602.2	2630.3	2630.3	2537.0
17.5°	2485.8	2498.2	2549.4	2582.4	2547.7	2486.6	2489.9	2527.9	2594.8	2665.0	2605.5
20°	2556.0	2567.5	2617.9	2586.5	2476.7	2387.6	2385.1	2431.3	2539.5	2687.2	2679.0
22.5°	2632.8	2649.3	2691.4	2589.8	2410.7	2297.6	2296.7	2344.6	2490.8	2709.5	2763.2
25°	2741.7	2767.3	2788.8	2618.7	2375.2	2239.0	2249.7	2295.1	2475.1	2745.9	2887.9
27.5°	2903.5	2924.2	2922.5	2679.0	2373.5	2215.0	2237.3	2290.1	2503.1	2810.3	3019.1
30°	3078.6	3089.3	3072.0	2763.2	2411.5	2229.9	2262.9	2325.6	2574.1	2916.8	3212.3
32.5°	3272.6	3285.8	3252.8	2889.5	2499.8	2339.7	2412.3	2442.9	2674.0	3070.3	3417.1
35°	3495.5	3521.1	3452.6	3056.3	2759.9	2740.1	2845.8	2806.1	2886.2	3251.9	3635.8
37.5°	3729.9	3730.8	3632.5	3303.1	3270.1	3304.0	3515.3	3391.5	3336.1	3454.2	3858.7
40°	3928.9	3924.0	3772.9	3635.8	3714.3	3848.8	4103.9	3914.0	3768.7	3725.8	4043.7
42.5°	4127.9	4109.7	3957.0	3847.2	4020.5	4297.1	4585.2	4352.4	4046.1	3972.7	4226.1
45°	4382.2	4376.4	4192.3	3931.4	4297.1	4799.1	5181.3	4804.0	4210.4	4116.3	4529.9
47.5°	4792.5	4764.4	4421.8	3924.8	4556.3	5467.8	5950.7	5372.8	4325.2	4119.6	5020.3
50°	5193.7	5159.0	4695.9	3924.0	4823.8	6161.3	6858.9	6063.8	4442.4	4139.4	5519.0
52.5°	5599.0	5599.0	5145.8	4017.2	5104.5	6935.7	7908.2	6924.9	4642.2	4398.7	6132.4
55°	5840.1	5904.5	5651.9	4174.9	5433.1	7847.1	8945.9	7854.5	4951.0	4866.8	6698.7
57.5°	5533.8	5654.4	5618.0	4065.1	5627.1	8516.6	9826.0	8559.6	5103.7	4922.1	6613.7
60°	4509.3	4676.9	4760.3	3510.3	5435.6	8594.2	10010.1	8605.8	4788.3	4191.4	5665.1
62.5°	2997.7	3135.5	3262.7	2508.1	4705.8	7731.5	8853.5	7734.0	3999.1	3128.1	3924.8
65°	1470.3	1572.7	1709.8	1482.7	3676.3	6460.1	6902.6	6249.6	2892.8	1751.0	2002.0
67.5°	384.7	413.6	432.6	575.4	2633.6	4641.4	4501.9	4571.2	1858.4	572.1	523.4
70°	199.8	201.4	200.6	237.8	1779.9	2949.8	3102.5	2870.5	1297.0	239.4	206.4
72.5°	142.8	143.7	141.2	160.2	859.4	1690.0	1751.0	1732.1	679.4	142.0	141.2
75°	93.3	94.1	92.5	94.1	129.6	192.4	177.5	186.6	113.1	90.0	90.0
77.5°	55.3	56.1	55.3	57.0	55.3	55.3	51.2	51.2	48.7	48.7	49.5
80°	37.2	37.2	36.3	38.0	34.7	34.7	33.0	32.2	29.7	28.9	28.9
82.5°	22.3	23.1	22.3	22.3	20.6	20.6	19.0	18.2	15.7	15.7	14.9
85°	11.6	11.6	10.7	10.7	9.1	8.3	6.6	6.6	5.0	4.1	4.1
87.5°	1.7	1.7	0.8	0.8	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°	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9
2.5°	1978.9	1962.4	1937.6	1913.7	1891.4	1868.3	1841.9	1814.6	1791.5	1767.6	1755.2
5°	2098.6	2064.8	2000.4	1943.4	1892.2	1850.1	1804.7	1765.9	1729.6	1699.9	1685.0
7.5°	2206.8	2153.9	2056.5	1966.5	1897.2	1839.4	1776.6	1718.8	1670.1	1633.8	1619.8
10°	2306.7	2243.9	2115.9	2002.0	1921.1	1856.7	1779.9	1701.5	1637.1	1589.2	1577.7
12.5°	2387.6	2315.7	2163.0	2030.9	1935.1	1865.8	1798.1	1730.4	1666.8	1604.9	1595.0
15°	2459.4	2374.4	2198.5	2049.1	1930.2	1841.9	1784.9	1776.6	1776.6	1706.5	1686.6
17.5°	2521.3	2428.0	2227.4	2057.3	1898.8	1770.9	1736.2	1808.0	1888.9	1838.6	1794.0
20°	2592.3	2479.2	2251.3	2057.3	1841.0	1680.9	1677.6	1799.8	1919.5	1920.3	1873.2
22.5°	2664.1	2538.6	2279.4	2049.9	1761.8	1576.8	1637.9	1766.7	1873.2	1918.6	1886.4
25°	2780.5	2621.2	2324.0	2044.1	1669.3	1505.8	1602.4	1723.0	1813.0	1860.8	1840.2
27.5°	2928.3	2730.2	2391.7	2053.2	1577.7	1463.7	1564.5	1666.0	1747.7	1789.8	1775.0
30°	3093.4	2855.7	2464.3	2068.9	1511.6	1442.3	1519.1	1600.8	1673.4	1715.5	1708.9
32.5°	3304.0	2991.9	2527.1	2047.4	1474.5	1431.5	1471.2	1529.8	1600.0	1626.4	1632.2
35°	3555.8	3142.1	2575.0	1963.2	1440.6	1420.0	1419.2	1455.5	1505.0	1547.1	1551.3
37.5°	3787.7	3318.0	2627.8	1818.7	1379.5	1391.1	1358.1	1379.5	1428.2	1470.3	1486.9
40°	4017.2	3496.3	2701.3	1634.6	1299.5	1326.7	1287.9	1302.8	1341.6	1396.9	1423.3
42.5°	4240.2	3657.3	2778.9	1446.4	1219.4	1236.7	1207.8	1222.7	1263.1	1332.5	1362.2
45°	4482.9	3875.2	2839.2	1268.9	1150.0	1142.6	1119.5	1140.9	1202.0	1278.0	1313.5
47.5°	4941.9	4218.7	2878.8	1150.9	1112.9	1059.2	1032.8	1079.0	1148.4	1225.2	1268.1
50°	5502.5	4715.7	2867.2	1075.7	1080.7	973.4	964.3	1025.4	1099.7	1179.7	1226.8
52.5°	5946.6	5203.6	2736.0	1003.9	1017.9	918.9	892.4	981.6	1052.6	1134.3	1183.0
55°	6285.9	5367.9	2333.1	918.9	915.6	879.2	823.9	936.2	1005.6	1081.5	1134.3
57.5°	6009.4	5002.2	1729.6	801.6	781.8	800.8	747.1	859.4	947.8	1022.9	1069.9
60°	4987.3	3988.4	963.4	710.0	653.9	700.1	691.8	778.5	885.0	964.3	1004.7
62.5°	3385.7	2655.9	571.3	561.4	530.0	596.1	639.8	696.8	801.6	866.0	904.0
65°	1687.5	1290.4	379.8	420.2	424.3	490.4	572.9	635.7	723.2	789.2	827.2
67.5°	489.6	401.2	289.0	321.1	365.7	418.6	484.6	558.9	643.9	722.4	767.0
70°	211.3	213.8	229.5	267.5	311.2	365.7	431.8	504.4	576.3	636.5	670.4
72.5°	149.4	155.2	172.5	211.3	252.6	304.6	370.7	440.9	492.9	554.0	589.5
75°	95.8	99.9	113.9	143.7	174.2	224.6	287.3	351.7	405.4	449.1	483.0
77.5°	52.8	53.7	65.2	82.6	103.2	135.4	181.6	232.0	271.6	296.4	326.9
80°	30.5	30.5	36.3	47.1	59.4	79.3	104.8	129.6	153.6	169.2	184.1
82.5°	16.5	16.5	19.0	25.6	32.2	43.8	58.6	71.0	85.9	94.1	104.0
85°	5.0	5.0	6.6	9.1	11.6	16.5	23.1	29.7	36.3	42.1	47.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9
2.5°	1752.7	1741.1	1734.5	1726.3	1728.8	1721.3	1717.2	1719.7	1704.8	1719.7	1734.5
5°	1679.2	1662.7	1649.5	1638.8	1633.8	1623.9	1618.1	1618.1	1609.0	1623.9	1642.1
7.5°	1614.8	1601.6	1595.0	1588.4	1581.0	1571.9	1562.0	1558.7	1552.9	1568.6	1584.3
10°	1571.9	1573.5	1577.7	1586.8	1585.1	1579.3	1564.5	1556.2	1556.2	1574.4	1598.3
12.5°	1591.7	1609.0	1619.0	1635.5	1638.8	1633.8	1619.0	1612.3	1628.9	1656.1	1695.7
15°	1668.5	1680.0	1688.3	1701.5	1700.7	1696.6	1685.0	1690.0	1744.4	1797.3	1832.8
17.5°	1751.9	1738.7	1737.0	1745.3	1747.7	1742.8	1736.2	1758.5	1848.5	1898.0	1916.2
20°	1812.1	1766.7	1756.8	1760.1	1766.7	1764.3	1764.3	1800.6	1893.9	1917.0	1893.9
22.5°	1830.3	1765.9	1751.0	1751.9	1761.0	1761.8	1765.9	1803.9	1858.4	1859.2	1823.7
25°	1801.4	1739.5	1728.8	1730.4	1741.1	1740.3	1742.0	1763.4	1787.4	1777.5	1751.0
27.5°	1746.9	1693.3	1690.0	1699.0	1713.1	1705.6	1700.7	1706.5	1718.0	1705.6	1682.5
30°	1685.0	1639.6	1641.2	1658.6	1673.4	1661.1	1648.7	1652.0	1652.8	1639.6	1613.2
32.5°	1619.8	1585.9	1591.7	1609.9	1627.2	1614.0	1600.8	1599.1	1583.5	1567.8	1542.2
35°	1554.6	1541.3	1548.8	1563.6	1578.5	1567.8	1559.5	1554.6	1520.7	1497.6	1476.1
37.5°	1495.1	1505.0	1518.2	1527.3	1532.3	1531.4	1526.5	1514.9	1470.3	1443.1	1415.0
40°	1442.3	1472.8	1486.9	1491.0	1498.4	1496.8	1495.9	1479.4	1420.8	1391.9	1359.7
42.5°	1394.4	1437.3	1461.3	1465.4	1469.5	1470.3	1467.9	1443.9	1377.1	1343.2	1312.7
45°	1348.2	1404.3	1434.8	1430.7	1436.5	1436.5	1439.0	1407.6	1334.1	1299.5	1267.3
47.5°	1307.7	1373.8	1401.8	1396.9	1400.2	1402.7	1405.1	1368.8	1287.1	1254.0	1221.0
50°	1270.6	1340.7	1364.7	1366.3	1366.3	1372.1	1371.3	1335.8	1247.4	1211.9	1178.9
52.5°	1230.9	1306.9	1332.5	1343.2	1346.5	1349.0	1337.4	1296.2	1207.0	1164.1	1133.5
55°	1184.7	1272.2	1295.3	1309.4	1316.0	1314.3	1298.6	1256.5	1165.7	1122.8	1088.1
57.5°	1114.5	1197.9	1230.9	1237.5	1248.3	1241.7	1223.5	1188.0	1099.7	1056.7	1021.2
60°	1037.7	1098.0	1124.4	1130.2	1122.0	1124.4	1122.0	1088.1	1011.3	977.5	941.2
62.5°	937.0	990.7	1018.8	1026.2	1012.2	1021.2	1017.9	975.8	899.1	863.6	831.4
65°	861.1	919.7	952.7	956.8	952.7	956.8	945.3	894.1	821.4	785.1	752.1
67.5°	801.6	861.9	896.6	908.1	904.0	903.2	885.0	825.6	750.4	710.8	668.7
70°	699.3	752.1	796.7	824.7	824.7	809.1	774.4	719.1	658.8	625.0	591.9
72.5°	619.2	686.1	729.8	758.7	764.5	755.4	706.7	648.1	578.7	544.9	510.2
75°	510.2	575.4	622.5	660.5	667.9	658.0	601.8	544.1	479.7	446.6	412.0
77.5°	341.0	379.8	417.7	452.4	445.0	451.6	413.6	369.9	330.2	305.5	289.8
80°	192.4	218.0	229.5	248.5	248.5	248.5	223.7	203.1	180.8	166.8	151.1
82.5°	109.0	125.5	130.4	146.1	150.3	151.1	134.6	121.4	107.3	99.9	89.2
85°	50.4	59.4	60.3	69.3	72.7	79.3	71.8	62.7	54.5	51.2	44.6
87.5°	1.7	5.0	6.6	12.4	16.5	19.0	20.6	20.6	17.3	15.7	13.2
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: P632764

CATALOG NUMBER: GWS-SA2D-735-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9	1850.9
2.5°	1752.7	1772.5	1795.6	1812.1	1841.9	1866.6	1892.2	1920.3	1940.9	1936.0
5°	1664.4	1697.4	1739.5	1778.3	1833.6	1889.7	1951.7	2015.2	2052.4	2050.7
7.5°	1614.8	1661.9	1713.1	1765.1	1830.3	1911.2	2006.1	2105.2	2155.6	2158.1
10°	1641.2	1691.6	1726.3	1770.0	1838.6	1940.1	2054.0	2172.9	2230.7	2242.3
12.5°	1724.6	1720.5	1718.0	1749.4	1832.0	1960.7	2100.3	2242.3	2307.5	2321.5
15°	1803.9	1718.8	1667.7	1689.1	1802.2	1973.9	2145.7	2318.2	2391.7	2406.6
17.5°	1818.7	1690.0	1595.0	1609.9	1755.2	1978.1	2189.4	2392.5	2471.8	2485.8
20°	1777.5	1652.8	1542.2	1521.5	1695.7	1967.3	2216.7	2454.4	2541.1	2556.0
22.5°	1725.5	1619.8	1502.5	1448.9	1623.1	1956.6	2247.2	2519.7	2619.5	2632.8
25°	1671.0	1577.7	1465.4	1383.7	1540.5	1950.0	2298.4	2605.5	2726.0	2741.7
27.5°	1613.2	1526.5	1433.2	1352.3	1464.6	1958.3	2371.1	2744.2	2881.3	2903.5
30°	1551.3	1475.3	1412.6	1341.6	1412.6	1965.7	2451.1	2886.2	3047.2	3078.6
32.5°	1486.9	1428.2	1391.1	1346.5	1380.4	1948.4	2521.3	3045.5	3245.3	3272.6
35°	1422.5	1380.4	1363.8	1355.6	1337.4	1884.8	2578.3	3206.5	3471.5	3495.5
37.5°	1362.2	1330.8	1325.9	1335.0	1271.4	1780.8	2644.3	3411.3	3693.6	3729.9
40°	1306.1	1277.2	1276.3	1274.7	1198.7	1638.8	2733.5	3619.3	3912.4	3928.9
42.5°	1254.0	1217.7	1224.3	1204.5	1139.3	1485.2	2817.7	3796.8	4116.3	4127.9
45°	1207.8	1159.9	1167.4	1142.6	1111.2	1324.2	2892.0	4006.5	4374.7	4382.2
47.5°	1163.2	1112.0	1091.4	1089.8	1106.3	1175.6	2964.6	4410.2	4779.3	4792.5
50°	1122.0	1066.6	1008.0	1044.4	1075.7	1064.2	3055.5	4842.8	5197.0	5193.7
52.5°	1082.3	1009.7	926.3	996.5	996.5	981.6	3029.9	5105.4	5542.1	5599.0
55°	1036.9	918.0	841.3	916.4	880.1	907.3	2576.6	5191.2	5759.2	5840.1
57.5°	946.9	804.9	738.1	778.5	724.0	841.3	1850.9	4765.2	5390.2	5533.8
60°	860.2	721.6	677.8	670.4	599.4	686.1	1199.6	3730.8	4436.6	4509.3
62.5°	758.7	649.7	612.6	555.6	482.1	499.5	726.5	2455.3	2981.2	2997.7
65°	681.9	588.6	517.6	449.9	394.6	362.4	429.3	1183.9	1490.2	1470.3
67.5°	585.3	504.4	436.7	388.0	342.6	302.2	285.6	351.7	397.9	384.7
70°	520.9	443.3	378.1	331.9	289.8	249.3	220.4	207.2	203.1	199.8
72.5°	449.1	381.4	313.7	269.1	229.5	192.4	165.9	150.3	146.1	142.8
75°	358.3	294.7	232.8	190.7	156.0	129.6	112.3	99.1	96.6	93.3
77.5°	236.9	189.1	138.7	113.1	92.5	78.4	66.9	58.6	57.0	55.3
80°	130.4	109.0	85.0	68.5	55.3	47.9	43.8	38.8	38.0	37.2
82.5°	77.6	65.2	48.7	38.8	32.2	28.9	26.4	23.9	23.1	22.3
85°	38.8	30.5	21.5	18.2	16.5	14.9	14.9	12.4	11.6	11.6
87.5°	9.9	8.3	5.0	4.1	4.1	4.1	3.3	2.5	2.5	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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