

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: P632760

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-735-U-SLL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

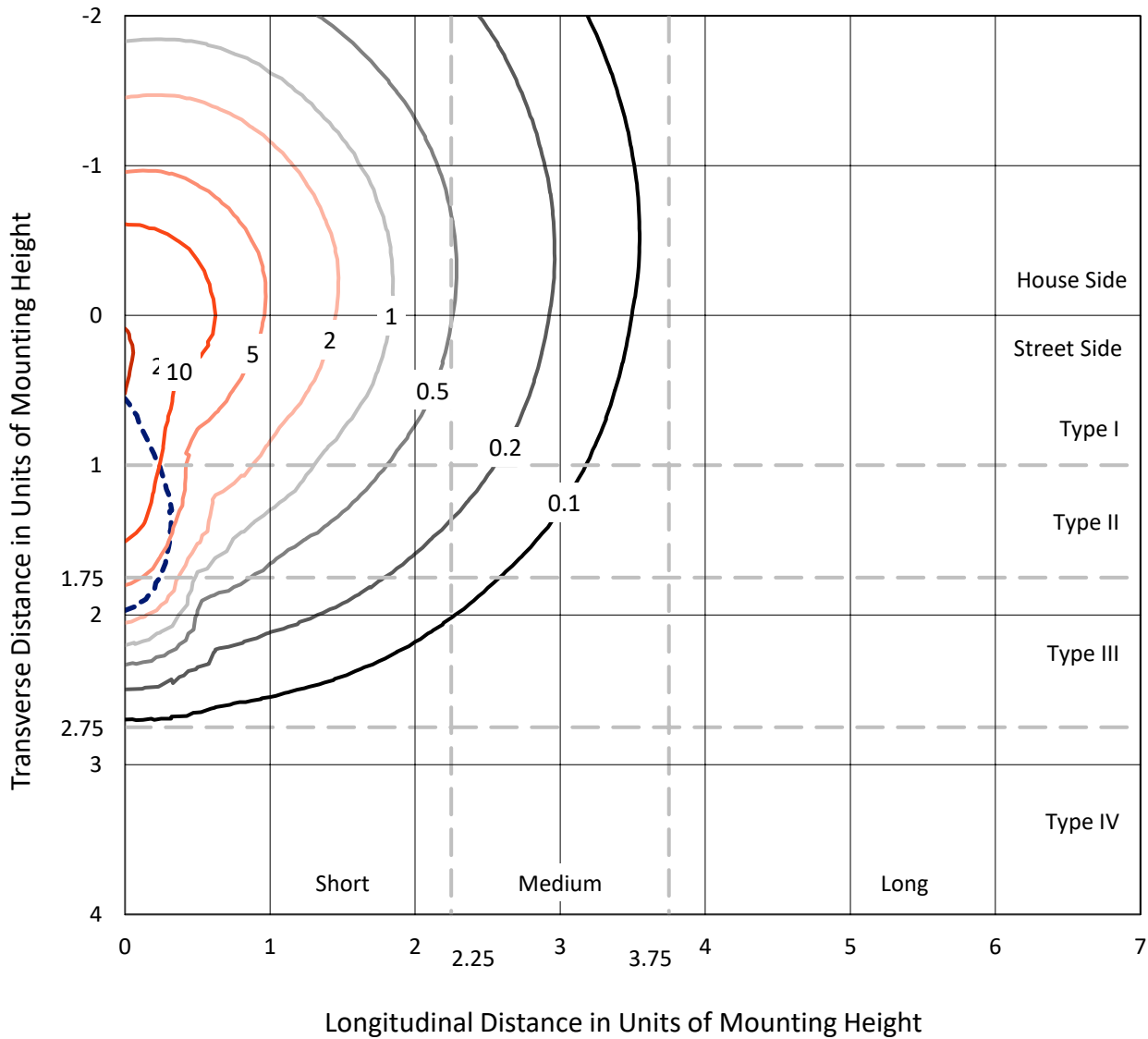
Lumens per Lamp: N/A  
Luminaire Lumens: 8963.9 lumens  
Efficiency: N/A  
Efficacy: 109.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

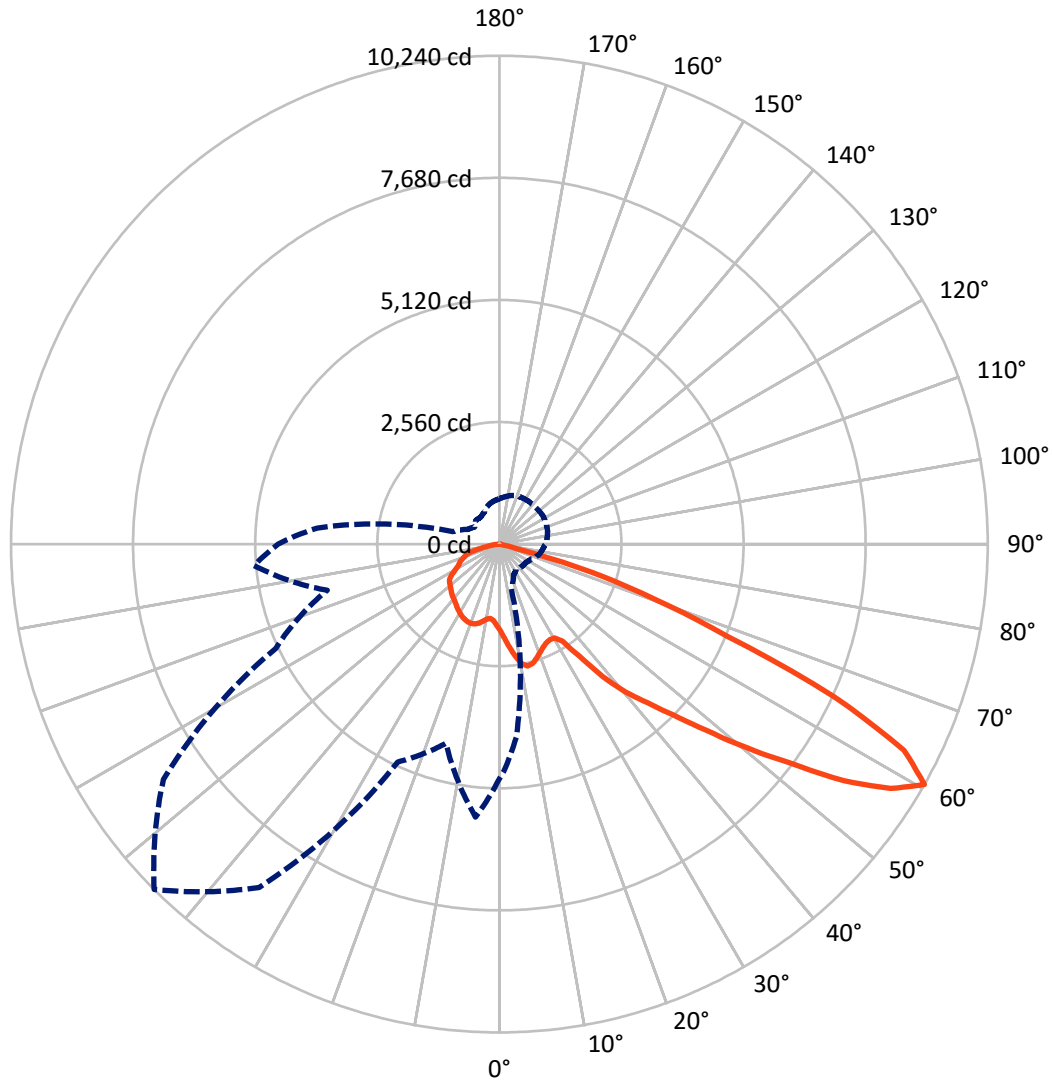
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3066.5	0.0	3066.5
	% Fixture	34.2	0.0	34.2
<b>Street Side</b>	Lumens	5897.4	0.0	5897.4
	% Fixture	65.8	0.0	65.8
<b>Total</b>	Lumens	8963.9	0.0	8963.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.6	2.0
10°-20°	566.5	6.3
20°-30°	922.7	10.3
30°-40°	1296.2	14.5
40°-50°	1773.7	19.8
50°-60°	2275.5	25.4
60°-70°	1532.3	17.1
70°-80°	383.1	4.3
80°-90°	37.3	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°	8963.9	100.0
0°-180°	8963.9	100.0

**Coefficient of Utilization**



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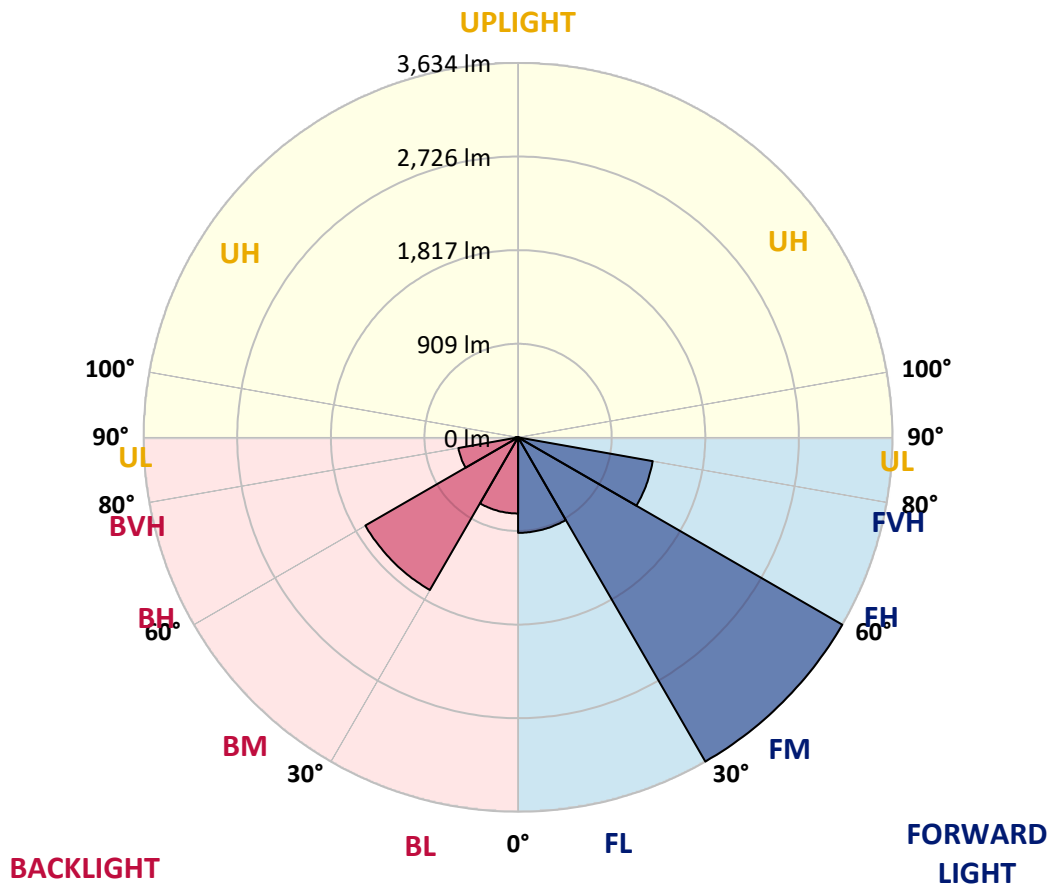
CATALOG NUMBER: GWS-SA2D-735-U-SLL-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.7	10.3			
FM (30°-60°)	3634.0	40.5			
FH (60°-80°)	1327.0	14.8			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	739.2	8.2	B2/1000		
BM (30°-60°)	1711.3	19.1	B2/2500		
BH (60°-80°)	588.3	6.6	B2/1000		G2/1000
BVH (80°-90°)	27.6	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°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1912.8	1908.6	1904.5	1872.3	1864.1	1840.9	1824.4	1803.8	1774.1	1757.6	1743.5
5°	2032.5	2025.9	2003.6	1937.5	1894.6	1847.5	1808.7	1765.8	1720.4	1690.7	1667.6
7.5°	2145.6	2143.9	2105.9	1997.0	1927.6	1859.9	1807.1	1744.4	1679.1	1634.6	1604.8
10°	2250.4	2238.0	2192.6	2050.6	1959.8	1882.2	1825.3	1755.9	1680.0	1619.7	1580.1
12.5°	2342.9	2327.2	2264.4	2100.2	1987.9	1892.1	1830.2	1773.3	1722.9	1672.5	1627.1
15°	2418.8	2399.8	2336.3	2146.4	2012.7	1886.3	1799.7	1755.1	1772.4	1794.7	1744.4
17.5°	2489.8	2470.0	2392.4	2180.2	2020.1	1850.9	1724.5	1705.6	1793.1	1894.6	1871.5
20°	2549.3	2527.0	2437.0	2196.8	2006.9	1783.2	1627.1	1660.2	1775.7	1897.1	1934.2
22.5°	2613.6	2595.5	2487.3	2220.7	1990.4	1689.9	1545.4	1626.3	1746.0	1852.5	1908.6
25°	2716.8	2694.5	2565.8	2262.8	1982.1	1602.4	1486.8	1593.3	1704.7	1801.3	1845.1
27.5°	2866.3	2825.0	2673.1	2336.3	1991.2	1519.8	1449.6	1552.8	1656.9	1739.4	1774.9
30°	3028.9	2979.4	2792.0	2412.2	2004.4	1469.5	1429.8	1506.6	1583.4	1665.9	1704.7
32.5°	3221.2	3177.5	2919.1	2469.2	1976.3	1446.3	1415.0	1456.2	1517.3	1583.4	1615.6
35°	3450.7	3372.3	3057.8	2515.4	1885.5	1412.5	1401.8	1400.9	1433.1	1497.5	1533.8
37.5°	3697.6	3613.4	3228.7	2564.9	1744.4	1358.8	1370.4	1335.7	1365.4	1416.6	1457.9
40°	3899.8	3811.5	3401.2	2632.6	1567.7	1274.6	1301.0	1263.9	1282.1	1334.9	1381.1
42.5°	4098.0	4003.8	3562.2	2709.4	1396.8	1192.1	1205.3	1191.2	1197.0	1252.3	1316.7
45°	4358.0	4252.3	3760.3	2763.9	1243.3	1126.9	1114.5	1090.5	1121.1	1192.9	1261.4
47.5°	4792.2	4665.9	4084.8	2799.4	1131.8	1089.7	1032.7	1018.7	1056.7	1136.8	1207.8
50°	5299.9	5191.0	4603.2	2797.7	1048.4	1058.3	953.5	941.1	1003.9	1084.8	1159.9
52.5°	5716.0	5605.4	5046.5	2715.2	979.9	991.5	907.3	872.6	958.4	1033.6	1108.7
55°	6052.0	5927.3	5250.4	2370.1	893.2	885.0	856.9	793.3	901.5	982.4	1052.6
57.5°	5871.2	5722.6	5003.6	1802.1	804.1	752.1	770.2	723.2	823.9	925.4	993.1
60°	4922.7	4788.9	4064.9	959.3	707.5	628.2	666.2	673.6	738.9	856.9	926.3
62.5°	3381.4	3284.0	2754.8	582.0	558.1	504.4	563.8	617.5	666.2	766.1	826.4
65°	1654.4	1625.5	1377.8	373.1	390.5	407.8	467.3	532.5	604.3	691.8	755.4
67.5°	455.7	459.0	417.7	291.4	307.9	355.8	402.9	454.9	526.7	607.6	672.0
70°	200.6	203.9	210.5	224.5	255.9	299.7	348.4	402.0	468.1	535.8	597.7
72.5°	139.5	142.8	152.7	170.9	199.0	240.2	286.5	337.6	406.2	463.1	514.3
75°	85.9	88.3	97.4	113.1	132.1	163.5	208.9	255.9	316.2	368.2	413.6
77.5°	45.4	43.8	49.5	60.3	76.8	93.3	123.8	153.5	196.5	238.6	276.6
80°	24.8	23.9	27.2	33.0	38.0	51.2	71.8	91.6	116.4	140.3	161.0
82.5°	10.7	9.9	10.7	14.0	17.3	24.8	36.3	50.4	64.4	80.9	94.1
85°	0.0	0.0	0.0	0.8	4.1	6.6	12.4	18.2	26.4	36.3	44.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	7.4
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°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1735.3	1714.6	1713.0	1696.5	1698.1	1699.0	1682.4	1675.8	1681.6	1688.2	1684.9
5°	1659.3	1637.9	1628.8	1613.1	1611.4	1604.0	1597.4	1589.2	1594.9	1600.7	1604.0
7.5°	1593.3	1579.2	1573.5	1569.3	1571.0	1567.7	1554.5	1547.1	1546.2	1548.7	1552.0
10°	1571.8	1560.3	1567.7	1579.2	1587.5	1593.3	1579.2	1566.9	1555.3	1550.4	1550.4
12.5°	1618.1	1603.2	1618.1	1630.4	1646.9	1651.1	1635.4	1622.2	1618.1	1623.0	1632.9
15°	1720.4	1685.7	1684.9	1692.3	1705.6	1712.2	1697.3	1690.7	1690.7	1722.1	1746.8
17.5°	1822.8	1765.8	1741.9	1737.8	1746.0	1748.5	1736.1	1730.3	1745.2	1806.3	1852.5
20°	1894.6	1825.3	1773.3	1763.3	1765.8	1766.6	1756.7	1752.6	1774.1	1848.4	1887.2
22.5°	1887.2	1836.0	1772.4	1760.0	1764.2	1762.5	1753.4	1751.8	1769.1	1833.5	1851.7
25°	1836.0	1796.4	1742.7	1734.5	1741.1	1740.2	1731.1	1727.0	1734.5	1777.4	1779.0
27.5°	1777.4	1742.7	1696.5	1694.0	1704.7	1710.5	1694.8	1682.4	1680.0	1708.9	1702.3
30°	1707.2	1681.6	1644.5	1646.1	1665.9	1669.2	1650.2	1632.1	1627.1	1642.8	1633.7
32.5°	1623.8	1615.6	1595.8	1599.9	1618.9	1625.5	1605.7	1586.7	1580.9	1585.9	1566.9
35°	1552.8	1549.5	1551.2	1558.6	1575.1	1580.1	1563.6	1548.7	1540.4	1523.1	1498.3
37.5°	1479.4	1488.4	1512.4	1526.4	1535.5	1533.8	1524.8	1514.0	1500.8	1468.6	1438.1
40°	1410.8	1434.0	1476.9	1492.6	1495.9	1496.7	1490.1	1481.0	1464.5	1421.6	1386.9
42.5°	1358.0	1383.6	1440.6	1464.5	1466.2	1467.8	1461.2	1453.8	1430.7	1373.7	1339.8
45°	1302.7	1336.5	1403.4	1432.3	1430.7	1429.8	1424.0	1420.7	1393.5	1327.5	1290.3
47.5°	1255.6	1295.3	1367.1	1391.9	1391.0	1390.2	1386.1	1386.1	1358.8	1287.0	1244.9
50°	1209.4	1254.8	1329.9	1350.6	1352.2	1350.6	1348.9	1351.4	1319.2	1242.4	1201.2
52.5°	1159.1	1210.2	1288.7	1307.6	1317.6	1321.7	1321.7	1315.9	1277.9	1197.9	1152.4
55°	1103.7	1152.4	1243.3	1268.8	1277.1	1284.5	1284.5	1273.0	1237.5	1156.6	1107.9
57.5°	1035.2	1078.1	1150.0	1175.6	1195.4	1200.3	1200.3	1181.3	1152.4	1074.8	1035.2
60°	960.9	998.1	1046.8	1074.0	1088.9	1079.0	1086.4	1081.5	1058.3	986.5	953.5
62.5°	861.9	899.8	953.5	981.6	988.2	978.3	988.2	987.3	956.0	891.6	852.0
65°	790.9	828.0	880.8	917.2	927.9	925.4	932.0	922.1	883.3	822.2	784.3
67.5°	706.7	746.3	807.4	847.8	870.1	872.6	881.7	861.0	821.4	754.5	706.7
70°	626.6	660.4	707.5	745.5	776.8	792.5	794.2	764.4	714.9	659.6	624.9
72.5°	542.4	577.0	634.0	675.3	714.9	733.1	733.1	696.8	643.1	582.0	544.9
75°	440.0	472.2	524.2	568.8	614.2	637.3	636.5	605.1	545.7	487.9	449.1
77.5°	298.0	322.0	355.0	388.8	395.4	413.6	422.7	383.0	350.0	318.7	284.0
80°	173.4	188.2	206.4	225.4	229.5	235.3	220.4	205.6	188.2	167.6	151.9
82.5°	101.5	111.4	120.5	135.4	137.9	139.5	126.3	119.7	105.7	93.3	83.4
85°	49.5	52.8	61.1	68.5	65.2	63.6	57.8	51.2	45.4	40.5	35.5
87.5°	9.9	9.9	14.9	14.0	11.6	9.9	5.8	7.4	1.7	1.7	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°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1695.7	1709.7	1727.0	1750.1	1776.6	1804.6	1831.9	1852.5	1873.1	1903.7	1898.7
5°	1609.0	1632.9	1660.2	1695.7	1738.6	1787.3	1841.8	1896.3	1954.9	2004.4	2025.9
7.5°	1558.6	1585.0	1617.2	1663.5	1718.8	1778.2	1855.0	1943.3	2038.2	2103.5	2143.9
10°	1558.6	1592.5	1634.6	1679.1	1727.8	1788.9	1883.9	1994.5	2116.7	2202.5	2249.6
12.5°	1648.6	1682.4	1691.5	1689.9	1717.1	1784.8	1907.0	2048.2	2194.3	2285.1	2342.9
15°	1788.9	1800.5	1732.0	1669.2	1673.4	1755.1	1917.7	2091.1	2261.1	2370.1	2432.9
17.5°	1883.0	1852.5	1730.3	1620.5	1597.4	1704.7	1917.7	2132.4	2332.1	2455.1	2513.8
20°	1890.5	1814.5	1688.2	1573.5	1514.0	1637.9	1904.5	2163.7	2400.7	2536.9	2599.6
22.5°	1825.3	1750.1	1643.6	1533.0	1445.5	1557.0	1883.0	2187.7	2459.3	2613.6	2691.2
25°	1751.0	1688.2	1598.2	1491.7	1398.5	1475.2	1863.2	2228.1	2541.0	2717.7	2796.1
27.5°	1678.3	1625.5	1543.8	1457.1	1372.0	1404.2	1850.9	2287.6	2638.4	2865.4	2933.1
30°	1607.3	1559.4	1485.1	1424.0	1358.0	1358.0	1840.1	2356.1	2767.2	3031.4	3099.1
32.5°	1535.5	1490.1	1429.8	1391.9	1349.8	1339.8	1810.4	2420.5	2900.1	3213.0	3282.3
35°	1468.6	1423.2	1377.0	1361.3	1345.6	1325.8	1736.9	2470.8	3029.7	3425.1	3484.6
37.5°	1405.9	1362.1	1327.5	1323.3	1325.0	1287.8	1621.4	2512.9	3191.5	3642.3	3673.6
40°	1351.4	1302.7	1275.5	1274.6	1282.9	1226.7	1475.2	2573.2	3376.4	3826.4	3813.1
42.5°	1302.7	1251.5	1218.5	1225.9	1221.0	1165.7	1332.4	2628.5	3537.4	3998.9	3972.5
45°	1254.8	1205.3	1159.1	1169.8	1164.0	1127.7	1211.1	2669.0	3715.7	4206.1	4209.4
47.5°	1208.6	1159.9	1113.6	1100.4	1099.6	1116.1	1117.8	2682.2	4006.3	4539.6	4464.5
50°	1165.7	1116.9	1069.1	1024.5	1041.8	1093.0	1048.4	2672.3	4441.4	4907.8	4698.1
52.5°	1121.1	1074.8	1022.0	941.9	987.3	1037.7	986.5	2636.8	4707.2	5233.1	5107.6
55°	1069.9	1026.1	954.3	856.9	912.2	922.9	922.9	2293.3	4820.3	5555.0	5632.6
57.5°	1001.4	943.6	829.7	751.2	800.8	759.5	855.3	1604.8	4633.7	5453.5	5754.8
60°	923.8	861.9	741.3	685.2	700.1	627.4	728.9	1006.3	3840.4	4640.3	5162.1
62.5°	821.4	764.4	664.6	620.8	590.3	511.8	587.0	636.5	2632.6	3445.8	3801.6
65°	752.9	690.1	601.0	543.2	480.5	411.9	389.7	417.7	1415.8	1928.5	2168.7
67.5°	672.0	610.1	525.9	453.2	402.9	353.3	314.5	304.6	485.4	642.3	695.1
70°	595.2	535.8	465.6	397.9	347.6	298.8	260.9	233.6	224.5	222.9	219.6
72.5°	516.8	461.5	402.9	340.1	284.8	240.2	206.4	175.0	161.8	157.7	153.5
75°	423.5	379.7	321.1	253.4	208.9	167.6	141.2	120.5	109.0	104.8	99.9
77.5°	272.4	252.6	201.4	163.5	126.3	99.9	85.9	72.6	65.2	63.6	59.4
80°	145.3	135.4	111.4	94.1	75.1	61.1	53.7	46.2	42.1	40.5	38.8
82.5°	80.9	73.5	61.9	54.5	43.8	37.1	33.0	29.7	27.2	26.4	25.6
85°	36.3	31.4	24.8	23.1	20.6	19.0	18.2	16.5	15.7	14.9	14.0
87.5°	1.7	3.3	4.1	3.3	3.3	5.0	5.8	5.8	5.0	5.0	4.1
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: P632760

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9	1807.9
2.5°	1929.3	1954.0	1956.5	1964.8	1954.0	1951.6	1934.2	1924.3	1915.2	1912.8
5°	2079.5	2129.1	2148.9	2162.9	2149.7	2143.1	2105.1	2065.5	2043.2	2032.5
7.5°	2233.9	2308.2	2347.0	2364.3	2366.0	2336.3	2271.0	2196.8	2159.6	2145.6
10°	2371.8	2463.4	2514.6	2547.6	2536.0	2499.7	2410.6	2309.8	2262.8	2250.4
12.5°	2474.1	2561.6	2601.3	2622.7	2621.9	2602.1	2517.9	2408.9	2355.3	2342.9
15°	2540.2	2592.2	2594.7	2599.6	2613.6	2640.1	2596.3	2495.6	2436.2	2418.8
17.5°	2592.2	2571.5	2532.7	2519.5	2550.9	2624.4	2650.8	2569.1	2504.7	2489.8
20°	2625.2	2521.2	2452.7	2427.1	2463.4	2583.1	2683.8	2635.1	2568.2	2549.3
22.5°	2650.8	2474.1	2363.5	2346.2	2384.1	2538.5	2717.7	2713.5	2640.1	2613.6
25°	2691.2	2442.8	2300.8	2288.4	2323.9	2517.1	2763.1	2820.0	2754.8	2716.8
27.5°	2754.8	2439.5	2268.6	2264.4	2313.2	2536.0	2828.3	2976.1	2894.3	2866.3
30°	2843.1	2470.8	2276.0	2284.3	2343.7	2604.6	2929.8	3154.4	3072.6	3028.9
32.5°	2970.3	2555.0	2389.1	2424.6	2468.4	2714.4	3078.4	3347.5	3285.6	3221.2
35°	3137.9	2786.2	2723.4	2874.5	2833.2	2954.6	3257.6	3582.0	3506.9	3450.7
37.5°	3361.6	3260.0	3317.8	3525.9	3426.0	3408.6	3476.3	3795.0	3753.7	3697.6
40°	3675.3	3695.9	3802.4	4075.7	3931.2	3819.8	3744.6	3955.1	3969.2	3899.8
42.5°	3883.3	3978.3	4235.0	4545.4	4346.4	4079.8	3969.2	4159.9	4160.7	4098.0
45°	3960.9	4209.4	4746.0	5103.5	4770.8	4228.4	4093.0	4438.1	4429.8	4358.0
47.5°	3932.9	4404.2	5276.8	5823.3	5315.6	4334.1	4075.7	4834.3	4901.2	4792.2
50°	3874.2	4599.9	5896.8	6705.0	5984.3	4446.3	4049.3	5273.5	5384.1	5299.9
52.5°	3933.7	4817.8	6629.9	7616.4	6823.1	4625.5	4227.6	5837.4	5817.6	5716.0
55°	4121.9	5075.4	7520.6	8761.4	7744.4	4928.4	4685.7	6374.8	6173.4	6052.0
57.5°	4112.8	5259.5	8301.6	9667.0	8545.9	5176.9	4845.1	6431.7	6024.8	5871.2
60°	3733.1	5175.3	8598.8	10239.9	8787.8	5039.9	4320.9	5744.9	5083.6	4922.7
62.5°	2786.2	4592.5	8022.6	9522.6	8103.5	4353.1	3249.3	4123.6	3653.0	3381.4
65°	1782.3	3592.7	6744.6	7714.6	6679.4	3329.4	1935.1	2210.8	1732.0	1654.4
67.5°	758.7	2536.0	5243.0	5156.3	4997.0	2157.1	747.1	622.5	464.0	455.7
70°	251.0	1725.4	3232.0	3439.2	2984.3	1486.0	246.8	208.9	208.0	200.6
72.5°	164.3	926.3	1819.5	2025.9	1920.2	855.3	149.4	139.5	142.8	139.5
75°	98.2	201.4	306.3	397.9	306.3	143.6	90.0	88.3	90.0	85.9
77.5°	57.8	56.1	54.5	54.5	53.7	49.5	45.4	43.8	44.6	45.4
80°	37.1	35.5	33.8	33.0	28.9	27.2	25.6	23.9	23.9	24.8
82.5°	23.9	22.3	20.6	18.2	14.9	12.4	11.6	9.9	9.9	10.7
85°	12.4	9.9	7.4	5.8	3.3	1.7	0.0	0.0	0.0	0.0
87.5°	2.5	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)