

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: P632819

Luminaire Tested: GWS-SA2D-740-U-SLR-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632819  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

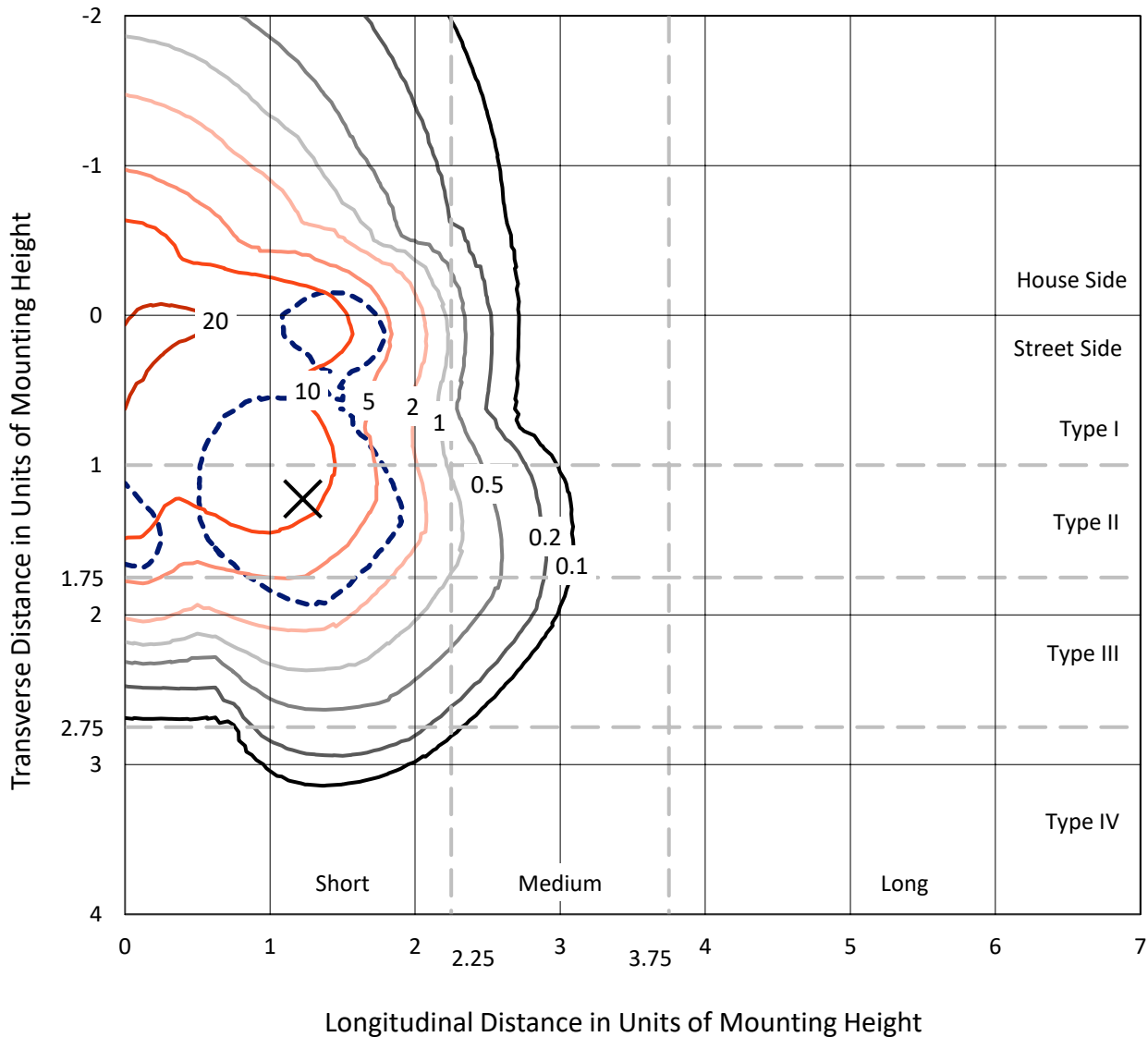
Lumens per Lamp: N/A  
Luminaire Lumens: 9135.3 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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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 CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

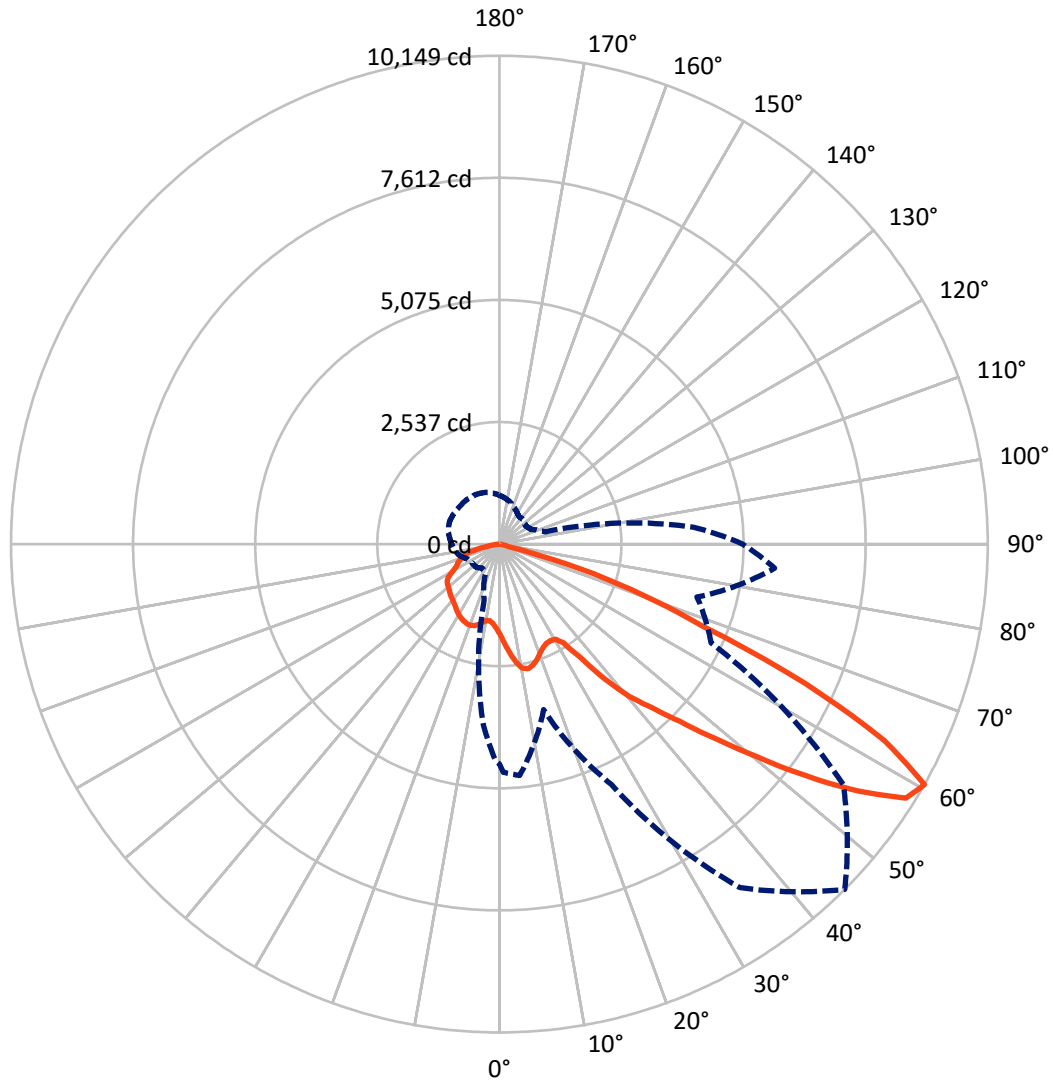
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25 fc  
 Type III - Short - N/A

REPORT NUMBER: P632819  
CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P632819

CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

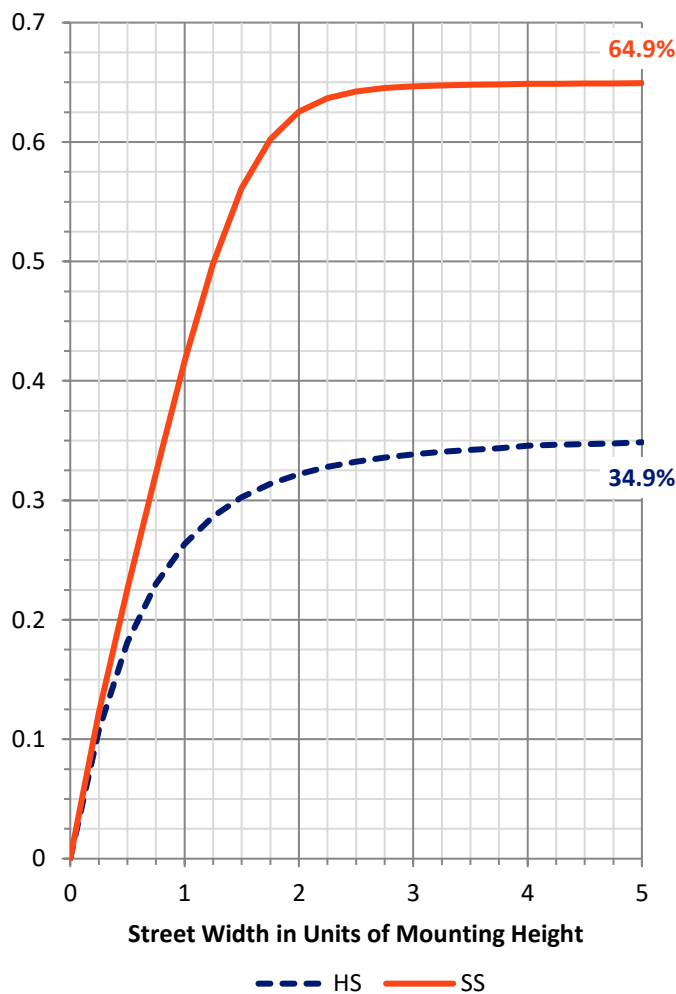
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3202.2	0.0	3202.2
	% Fixture	35.1	0.0	35.1
<b>Street Side</b>	Lumens	5933.1	0.0	5933.1
	% Fixture	64.9	0.0	64.9
<b>Total</b>	Lumens	9135.3	0.0	9135.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.1	2.0
10°-20°	578.6	6.3
20°-30°	939.9	10.3
30°-40°	1325.5	14.5
40°-50°	1831.8	20.1
50°-60°	2358.0	25.8
60°-70°	1494.1	16.4
70°-80°	383.4	4.2
80°-90°	41.0	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°	9135.3	100.0
0°-180°	9135.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P632819

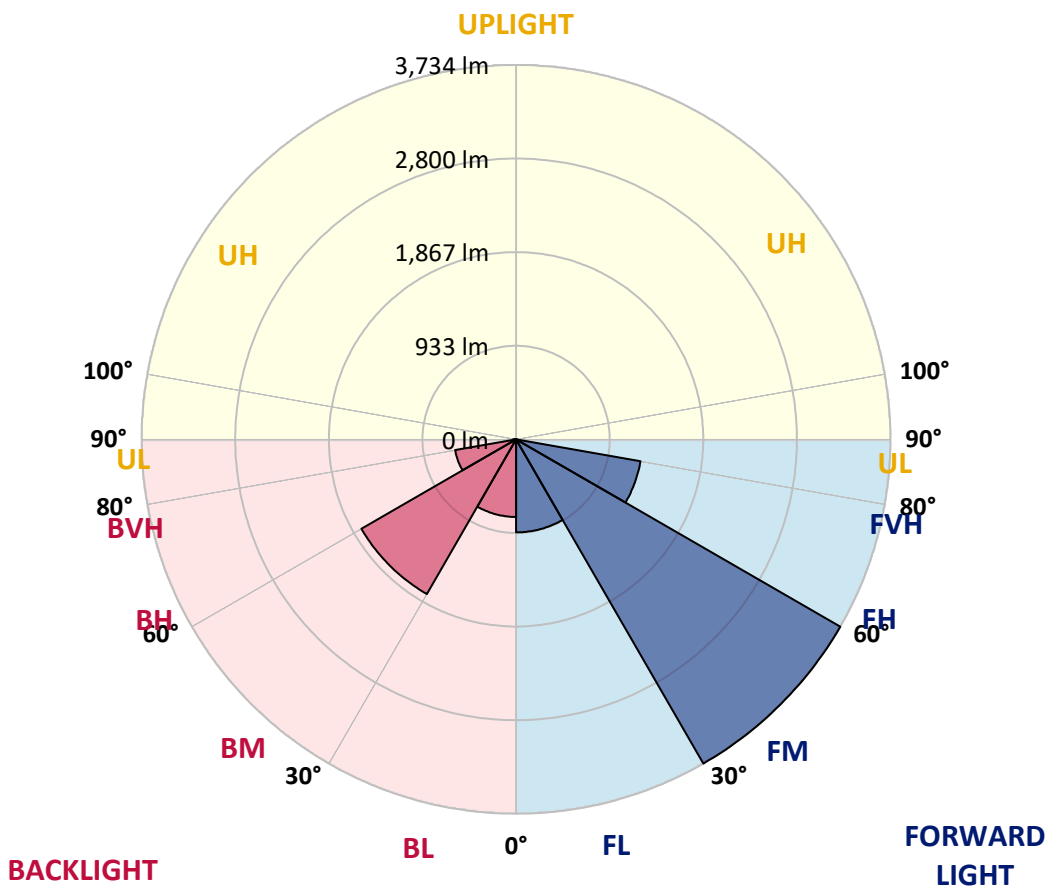
CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.6	10.2			
FM (30°-60°)	3734.0	40.9			
FH (60°-80°)	1260.4	13.8			G1/1800
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	774.0	8.5	B2/1000		
BM (30°-60°)	1781.3	19.5	B2/2500		
BH (60°-80°)	617.1	6.8	B2/1000		G2/1000
BVH (80°-90°)	29.9	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





REPORT NUMBER: P632819

CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1962.9	1976.3	1984.6	2000.5	2029.0	2044.9	2062.5	2043.2	2048.3	2045.7	2014.8
5°	2079.2	2095.1	2116.9	2163.8	2216.5	2245.8	2273.4	2269.2	2243.3	2199.8	2168.8
7.5°	2188.0	2206.5	2244.1	2320.3	2398.1	2443.3	2476.8	2455.1	2433.3	2364.7	2286.8
10°	2273.4	2284.3	2335.4	2437.5	2527.9	2578.9	2620.0	2614.9	2584.8	2507.8	2403.2
12.5°	2353.8	2361.3	2416.6	2518.7	2599.9	2622.5	2655.9	2666.8	2656.8	2599.0	2496.1
15°	2440.0	2454.2	2505.3	2583.1	2620.0	2596.5	2608.2	2638.4	2666.8	2666.8	2572.2
17.5°	2520.3	2532.9	2584.8	2618.3	2583.1	2521.2	2524.5	2563.0	2630.8	2702.0	2641.7
20°	2591.5	2603.2	2654.3	2622.5	2511.1	2420.7	2418.2	2465.1	2574.8	2724.6	2716.2
22.5°	2669.3	2686.1	2728.8	2625.8	2444.2	2329.5	2328.7	2377.2	2525.4	2747.2	2801.6
25°	2779.8	2805.8	2827.5	2655.1	2408.2	2270.1	2281.0	2327.0	2509.5	2784.0	2928.0
27.5°	2943.9	2964.8	2963.1	2716.2	2406.5	2245.8	2268.4	2322.0	2537.9	2849.3	3061.1
30°	3121.3	3132.2	3114.7	2801.6	2445.0	2260.9	2294.3	2358.0	2609.9	2957.3	3256.9
32.5°	3318.1	3331.4	3298.0	2929.7	2534.6	2372.2	2445.9	2476.8	2711.2	3113.0	3464.5
35°	3544.1	3570.0	3500.5	3098.7	2798.2	2778.2	2885.3	2845.1	2926.3	3297.1	3686.4
37.5°	3781.8	3782.6	3683.0	3349.0	3315.5	3349.9	3564.1	3438.6	3382.5	3502.2	3912.4
40°	3983.5	3978.5	3825.3	3686.4	3765.9	3902.3	4161.0	3968.4	3821.1	3777.6	4099.9
42.5°	4185.2	4166.8	4012.0	3900.6	4076.4	4356.8	4649.0	4412.9	4102.4	4027.9	4284.8
45°	4443.0	4437.2	4250.5	3986.0	4356.8	4865.8	5253.3	4870.8	4268.9	4173.5	4592.9
47.5°	4859.1	4830.6	4483.2	3979.3	4619.7	5543.8	6033.4	5447.5	4385.3	4176.9	5090.1
50°	5265.9	5230.7	4761.1	3978.5	4890.9	6246.9	6954.2	6148.1	4504.1	4197.0	5595.7
52.5°	5676.8	5676.8	5217.3	4073.1	5175.5	7032.0	8018.1	7021.1	4706.7	4459.8	6217.6
55°	5921.3	5986.6	5730.4	4232.9	5508.6	7956.1	9070.2	7963.7	5019.8	4934.4	6791.8
57.5°	5610.7	5732.9	5696.1	4121.6	5705.3	8635.0	9962.5	8678.5	5174.6	4990.5	6705.6
60°	4571.9	4741.9	4826.4	3559.1	5511.1	8713.7	10149.2	8725.4	4854.9	4249.7	5743.8
62.5°	3039.3	3179.1	3308.0	2542.9	4771.2	7838.9	8976.5	7841.5	4054.7	3171.6	3979.3
65°	1490.8	1594.6	1733.5	1503.3	3727.4	6549.9	6998.5	6336.4	2933.0	1775.4	2029.8
67.5°	390.1	419.4	438.6	583.4	2670.2	4705.9	4564.4	4634.7	1884.2	580.1	530.7
70°	202.6	204.2	203.4	241.1	1804.7	2990.8	3145.6	2910.4	1315.0	242.7	209.3
72.5°	144.8	145.6	143.1	162.4	871.4	1713.4	1775.4	1756.1	688.9	144.0	143.1
75°	94.6	95.4	93.7	95.4	131.4	195.0	180.0	189.2	114.7	91.2	91.2
77.5°	56.1	56.9	56.1	57.8	56.1	56.1	51.9	51.9	49.4	49.4	50.2
80°	37.7	37.7	36.8	38.5	35.2	35.2	33.5	32.6	30.1	29.3	29.3
82.5°	22.6	23.4	22.6	22.6	20.9	20.9	19.3	18.4	15.9	15.9	15.1
85°	11.7	11.7	10.9	10.9	9.2	8.4	6.7	6.7	5.0	4.2	4.2
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



REPORT NUMBER: P632819

CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	2006.4	1989.7	1964.5	1940.3	1917.7	1894.2	1867.5	1839.8	1816.4	1792.1	1779.6
5°	2127.8	2093.5	2028.2	1970.4	1918.5	1875.8	1829.8	1790.4	1753.6	1723.5	1708.4
7.5°	2237.4	2183.9	2085.1	1993.8	1923.5	1864.9	1801.3	1742.7	1693.3	1656.5	1642.3
10°	2338.7	2275.1	2145.4	2029.8	1947.8	1882.5	1804.7	1725.2	1659.9	1611.3	1599.6
12.5°	2420.7	2347.9	2193.1	2059.1	1962.0	1891.7	1823.1	1754.4	1690.0	1627.2	1617.2
15°	2493.6	2407.3	2229.1	2077.5	1957.0	1867.5	1809.7	1801.3	1801.3	1730.2	1710.1
17.5°	2556.3	2461.8	2258.4	2085.9	1925.2	1795.5	1760.3	1833.1	1915.2	1864.1	1818.9
20°	2628.3	2513.7	2282.6	2085.9	1866.6	1704.2	1700.9	1824.8	1946.1	1947.0	1899.3
22.5°	2701.1	2573.9	2311.1	2078.4	1786.3	1598.8	1660.7	1791.3	1899.3	1945.3	1912.7
25°	2819.2	2657.6	2356.3	2072.5	1692.5	1526.8	1624.7	1746.9	1838.2	1886.7	1865.8
27.5°	2969.0	2768.1	2424.9	2081.7	1599.6	1484.1	1586.2	1689.2	1772.0	1814.7	1799.7
30°	3136.4	2895.3	2498.6	2097.6	1532.6	1462.3	1540.2	1623.0	1696.7	1739.4	1732.7
32.5°	3349.9	3033.5	2562.2	2075.9	1495.0	1451.4	1491.6	1551.0	1622.2	1649.0	1654.8
35°	3605.2	3185.8	2610.7	1990.5	1460.6	1439.7	1438.9	1475.7	1525.9	1568.6	1572.8
37.5°	3840.4	3364.1	2664.3	1844.0	1398.7	1410.4	1376.9	1398.7	1448.1	1490.8	1507.5
40°	4073.1	3544.9	2738.8	1657.4	1317.5	1345.1	1305.8	1320.9	1360.2	1416.3	1443.1
42.5°	4299.1	3708.1	2817.5	1466.5	1236.3	1253.9	1224.6	1239.7	1280.7	1351.0	1381.1
45°	4545.2	3929.1	2878.6	1286.5	1166.0	1158.5	1135.0	1156.8	1218.7	1295.7	1331.7
47.5°	5010.6	4277.3	2918.8	1166.8	1128.3	1073.9	1047.1	1094.0	1164.3	1242.2	1285.7
50°	5578.9	4781.2	2907.1	1090.7	1095.7	986.9	977.7	1039.6	1114.9	1196.1	1243.9
52.5°	6029.2	5275.9	2774.0	1017.8	1032.1	931.6	904.8	995.2	1067.2	1150.1	1199.5
55°	6373.3	5442.5	2365.5	931.6	928.3	891.5	835.4	949.2	1019.5	1096.5	1150.1
57.5°	6092.9	5071.7	1753.6	812.8	792.7	811.9	757.5	871.4	960.9	1037.1	1084.8
60°	5056.6	4043.8	976.8	719.9	662.9	709.8	701.4	789.3	897.3	977.7	1018.7
62.5°	3432.7	2692.8	579.2	569.2	537.4	604.3	648.7	706.5	812.8	878.1	916.6
65°	1710.9	1308.3	385.0	426.1	430.2	497.2	580.9	644.5	733.3	800.2	838.7
67.5°	496.4	406.8	293.0	325.6	370.8	424.4	491.3	566.7	652.9	732.4	777.6
70°	214.3	216.8	232.7	271.2	315.6	370.8	437.8	511.4	584.3	645.4	679.7
72.5°	151.5	157.4	174.9	214.3	256.1	308.9	375.8	447.0	499.7	561.7	597.7
75°	97.1	101.3	115.5	145.6	176.6	227.7	291.3	356.6	411.0	455.4	489.7
77.5°	53.6	54.4	66.1	83.7	104.6	137.3	184.2	235.2	275.4	300.5	331.5
80°	31.0	31.0	36.8	47.7	60.3	80.4	106.3	131.4	155.7	171.6	186.7
82.5°	16.7	16.7	19.3	25.9	32.6	44.4	59.4	72.0	87.1	95.4	105.5
85°	5.0	5.0	6.7	9.2	11.7	16.7	23.4	30.1	36.8	42.7	48.5
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°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1777.0	1765.3	1758.6	1750.3	1752.8	1745.2	1741.1	1743.6	1728.5	1743.6	1758.6
5°	1702.6	1685.8	1672.4	1661.5	1656.5	1646.5	1640.6	1640.6	1631.4	1646.5	1664.9
7.5°	1637.3	1623.9	1617.2	1610.5	1602.9	1593.7	1583.7	1580.3	1574.5	1590.4	1606.3
10°	1593.7	1595.4	1599.6	1608.8	1607.1	1601.3	1586.2	1577.8	1577.8	1596.2	1620.5
12.5°	1613.8	1631.4	1641.4	1658.2	1661.5	1656.5	1641.4	1634.8	1651.5	1679.1	1719.3
15°	1691.7	1703.4	1711.8	1725.2	1724.3	1720.1	1708.4	1713.4	1768.7	1822.3	1858.2
17.5°	1776.2	1762.8	1761.1	1769.5	1772.0	1767.0	1760.3	1782.9	1874.1	1924.4	1942.8
20°	1837.3	1791.3	1781.2	1784.6	1791.3	1788.8	1788.8	1825.6	1920.2	1943.6	1920.2
22.5°	1855.7	1790.4	1775.4	1776.2	1785.4	1786.3	1790.4	1828.9	1884.2	1885.0	1849.0
25°	1826.4	1763.7	1752.8	1754.4	1765.3	1764.5	1766.2	1787.9	1812.2	1802.2	1775.4
27.5°	1771.2	1716.8	1713.4	1722.6	1736.9	1729.3	1724.3	1730.2	1741.9	1729.3	1705.9
30°	1708.4	1662.4	1664.0	1681.6	1696.7	1684.1	1671.6	1674.9	1675.8	1662.4	1635.6
32.5°	1642.3	1608.0	1613.8	1632.2	1649.8	1636.4	1623.0	1621.4	1605.5	1589.6	1563.6
35°	1576.2	1562.8	1570.3	1585.4	1600.4	1589.6	1581.2	1576.2	1541.8	1518.4	1496.6
37.5°	1515.9	1525.9	1539.3	1548.5	1553.6	1552.7	1547.7	1536.0	1490.8	1463.2	1434.7
40°	1462.3	1493.3	1507.5	1511.7	1519.2	1517.6	1516.7	1500.0	1440.6	1411.3	1378.6
42.5°	1413.8	1457.3	1481.6	1485.8	1489.9	1490.8	1488.3	1464.0	1396.2	1361.9	1330.9
45°	1366.9	1423.8	1454.8	1450.6	1456.5	1456.5	1459.0	1427.2	1352.7	1317.5	1284.9
47.5°	1325.9	1392.8	1421.3	1416.3	1419.6	1422.1	1424.7	1387.8	1305.0	1271.5	1238.0
50°	1288.2	1359.4	1383.6	1385.3	1385.3	1391.2	1390.3	1354.3	1264.8	1228.8	1195.3
52.5°	1248.0	1325.0	1351.0	1361.9	1365.2	1367.7	1356.0	1314.2	1223.8	1180.2	1149.3
55°	1201.2	1289.9	1313.3	1327.6	1334.3	1332.6	1316.7	1274.0	1181.9	1138.4	1103.2
57.5°	1130.0	1214.6	1248.0	1254.7	1265.6	1258.9	1240.5	1204.5	1114.9	1071.4	1035.4
60°	1052.2	1113.3	1140.1	1145.9	1137.5	1140.1	1137.5	1103.2	1025.4	991.1	954.2
62.5°	950.0	1004.5	1032.9	1040.4	1026.2	1035.4	1032.1	989.4	911.5	875.6	842.9
65°	873.0	932.5	966.0	970.1	966.0	970.1	958.4	906.5	832.9	796.0	762.5
67.5°	812.8	873.9	909.0	920.8	916.6	915.7	897.3	837.0	760.9	720.7	678.0
70°	709.0	762.5	807.7	836.2	836.2	820.3	785.1	729.1	668.0	633.6	600.2
72.5°	627.8	695.6	739.9	769.2	775.1	765.9	716.5	657.1	586.8	552.5	517.3
75°	517.3	583.4	631.1	669.6	677.2	667.1	610.2	551.6	486.3	452.8	417.7
77.5°	345.7	385.0	423.5	458.7	451.2	457.9	419.4	375.0	334.8	309.7	293.8
80°	195.0	221.0	232.7	252.0	252.0	252.0	226.8	205.9	183.3	169.1	153.2
82.5°	110.5	127.2	132.3	148.2	152.3	153.2	136.4	123.0	108.8	101.3	90.4
85°	51.1	60.3	61.1	70.3	73.7	80.4	72.8	63.6	55.2	51.9	45.2
87.5°	1.7	5.0	6.7	12.6	16.7	19.3	20.9	20.9	17.6	15.9	13.4
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: P632819  
 CATALOG NUMBER: GWS-SA2D-740-U-SLR-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7	1876.7
2.5°	1777.0	1797.1	1820.6	1837.3	1867.5	1892.6	1918.5	1947.0	1967.9	1962.9
5°	1687.5	1721.0	1763.7	1803.0	1859.1	1916.0	1978.8	2043.2	2080.9	2079.2
7.5°	1637.3	1685.0	1736.9	1789.6	1855.7	1937.8	2034.0	2134.5	2185.5	2188.0
10°	1664.0	1715.1	1750.3	1794.6	1864.1	1967.1	2082.6	2203.1	2261.7	2273.4
12.5°	1748.6	1744.4	1741.9	1773.7	1857.4	1988.0	2129.4	2273.4	2339.5	2353.8
15°	1828.9	1742.7	1690.8	1712.6	1827.3	2001.4	2175.5	2350.4	2424.9	2440.0
17.5°	1844.0	1713.4	1617.2	1632.2	1779.6	2005.6	2219.8	2425.8	2506.1	2520.3
20°	1802.2	1675.8	1563.6	1542.7	1719.3	1994.7	2247.5	2488.5	2576.4	2591.5
22.5°	1749.4	1642.3	1523.4	1469.0	1645.6	1983.8	2278.4	2554.7	2655.9	2669.3
25°	1694.2	1599.6	1485.8	1402.9	1561.9	1977.1	2330.3	2641.7	2763.9	2779.8
27.5°	1635.6	1547.7	1453.1	1371.1	1484.9	1985.5	2404.0	2782.3	2921.3	2943.9
30°	1572.8	1495.8	1432.2	1360.2	1432.2	1993.0	2485.2	2926.3	3089.5	3121.3
32.5°	1507.5	1448.1	1410.4	1365.2	1399.5	1975.4	2556.3	3087.9	3290.4	3318.1
35°	1442.2	1399.5	1382.8	1374.4	1356.0	1911.0	2614.1	3251.1	3519.8	3544.1
37.5°	1381.1	1349.3	1344.3	1353.5	1289.1	1805.5	2681.1	3458.7	3744.9	3781.8
40°	1324.2	1294.9	1294.1	1292.4	1215.4	1661.5	2771.5	3669.6	3966.8	3983.5
42.5°	1271.5	1234.6	1241.3	1221.3	1155.1	1505.8	2856.8	3849.6	4173.5	4185.2
45°	1224.6	1176.1	1183.6	1158.5	1126.7	1342.6	2932.2	4062.2	4435.5	4443.0
47.5°	1179.4	1127.5	1106.6	1104.9	1121.6	1192.0	3005.8	4471.5	4845.7	4859.1
50°	1137.5	1081.5	1022.0	1058.9	1090.7	1079.0	3097.9	4910.1	5269.2	5265.9
52.5°	1097.4	1023.7	939.2	1010.3	1010.3	995.2	3072.0	5176.3	5619.1	5676.8
55°	1051.3	930.8	853.0	929.1	892.3	919.9	2612.4	5263.3	5839.2	5921.3
57.5°	960.1	816.1	748.3	789.3	734.1	853.0	1876.7	4831.4	5465.1	5610.7
60°	872.2	731.6	687.2	679.7	607.7	695.6	1216.2	3782.6	4498.3	4571.9
62.5°	769.2	658.8	621.1	563.3	488.8	506.4	736.6	2489.4	3022.6	3039.3
65°	691.4	596.8	524.8	456.2	400.1	367.5	435.3	1200.3	1510.9	1490.8
67.5°	593.5	511.4	442.8	393.4	347.4	306.4	289.6	356.6	403.5	390.1
70°	528.2	449.5	383.4	336.5	293.8	252.8	223.5	210.1	205.9	202.6
72.5°	455.4	386.7	318.1	272.9	232.7	195.0	168.2	152.3	148.2	144.8
75°	363.3	298.8	236.0	193.4	158.2	131.4	113.8	100.4	97.9	94.6
77.5°	240.2	191.7	140.6	114.7	93.7	79.5	67.8	59.4	57.8	56.1
80°	132.3	110.5	86.2	69.5	56.1	48.5	44.4	39.3	38.5	37.7
82.5°	78.7	66.1	49.4	39.3	32.6	29.3	26.8	24.3	23.4	22.6
85°	39.3	31.0	21.8	18.4	16.7	15.1	15.1	12.6	11.7	11.7
87.5°	10.0	8.4	5.0	4.2	4.2	4.2	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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