

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: P636279

Luminaire Tested: GWS-SA3F-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636279  
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-SA3F-740-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

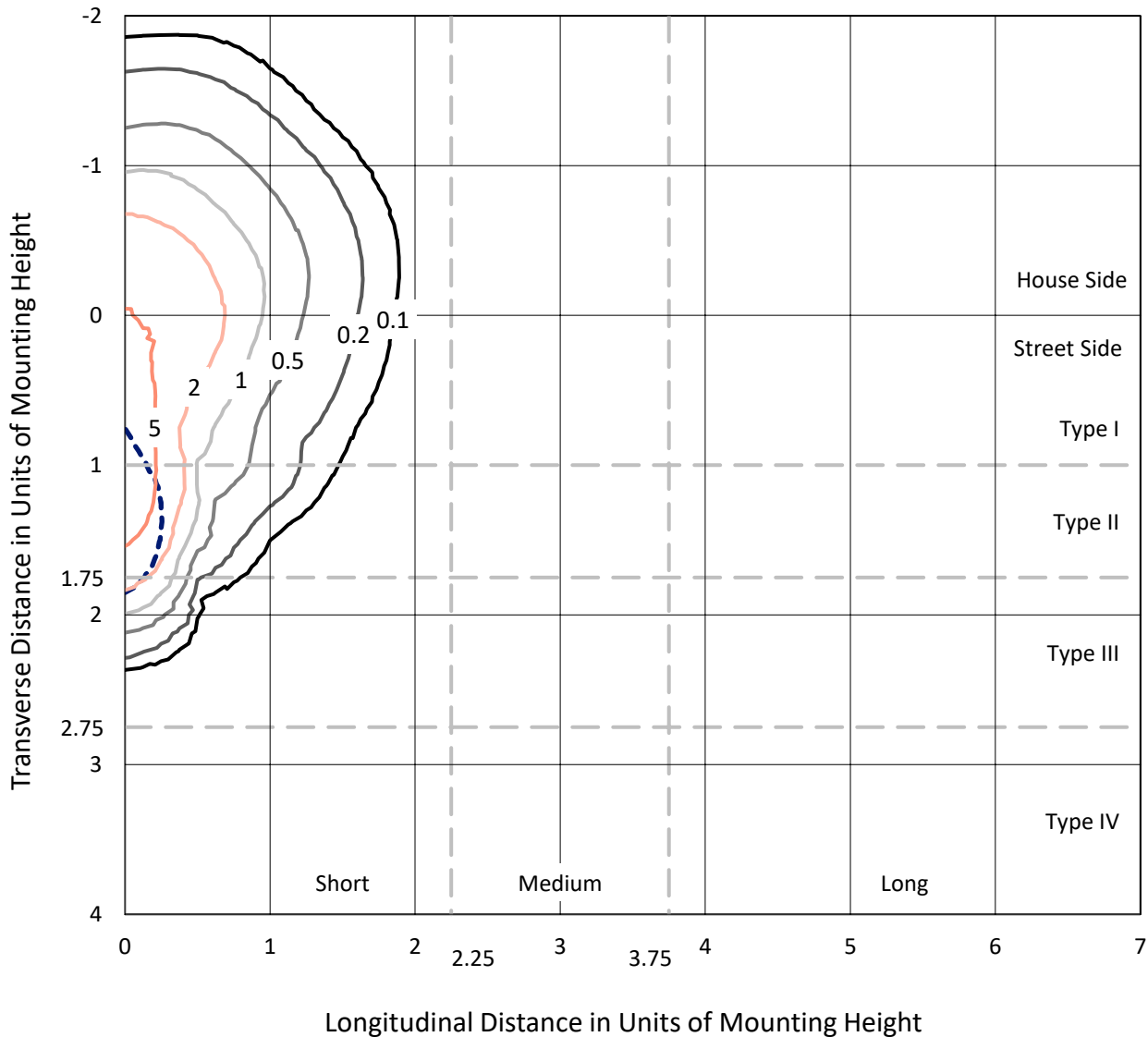
Lumens per Lamp: N/A  
Luminaire Lumens: 13110.9 lumens  
Efficiency: N/A  
Efficacy: 71.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

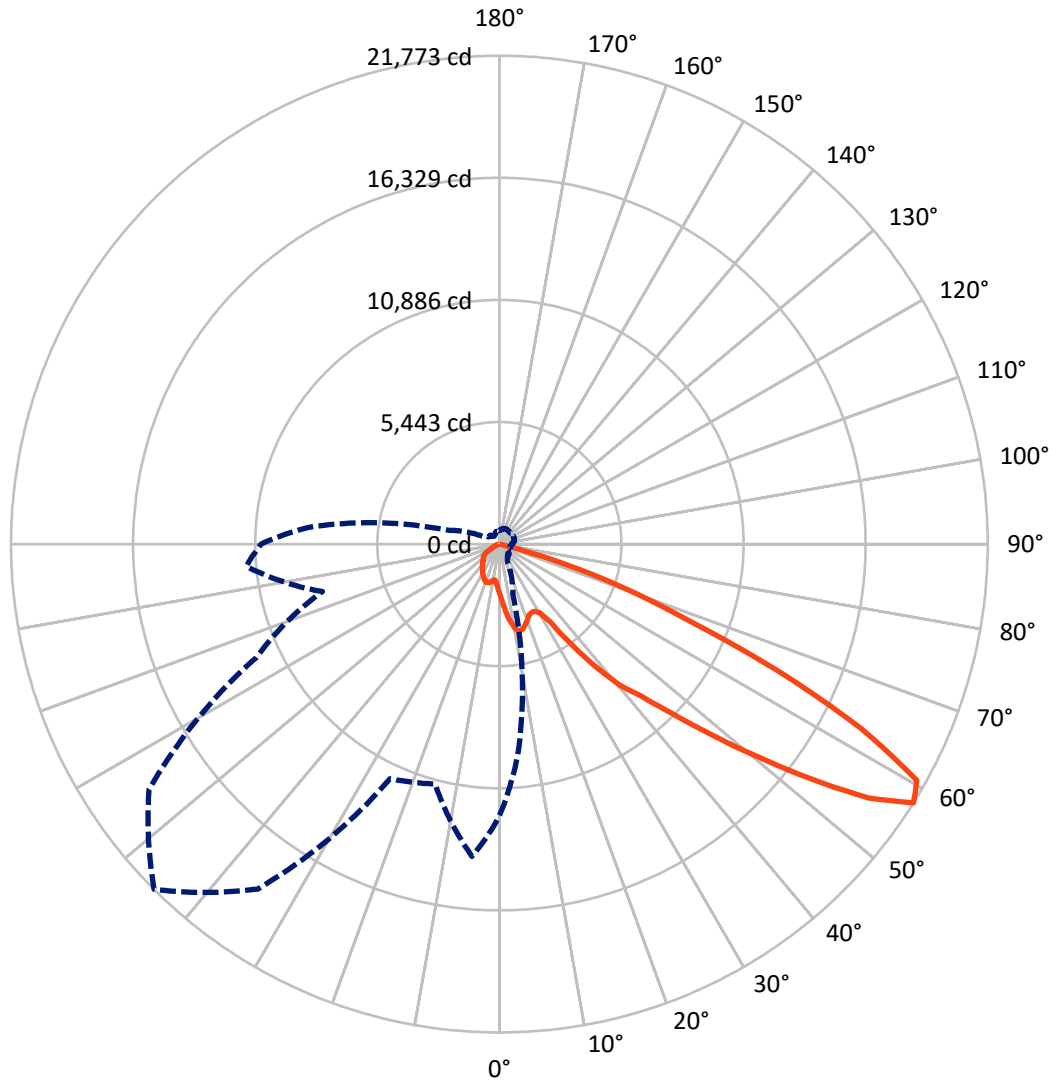
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.7 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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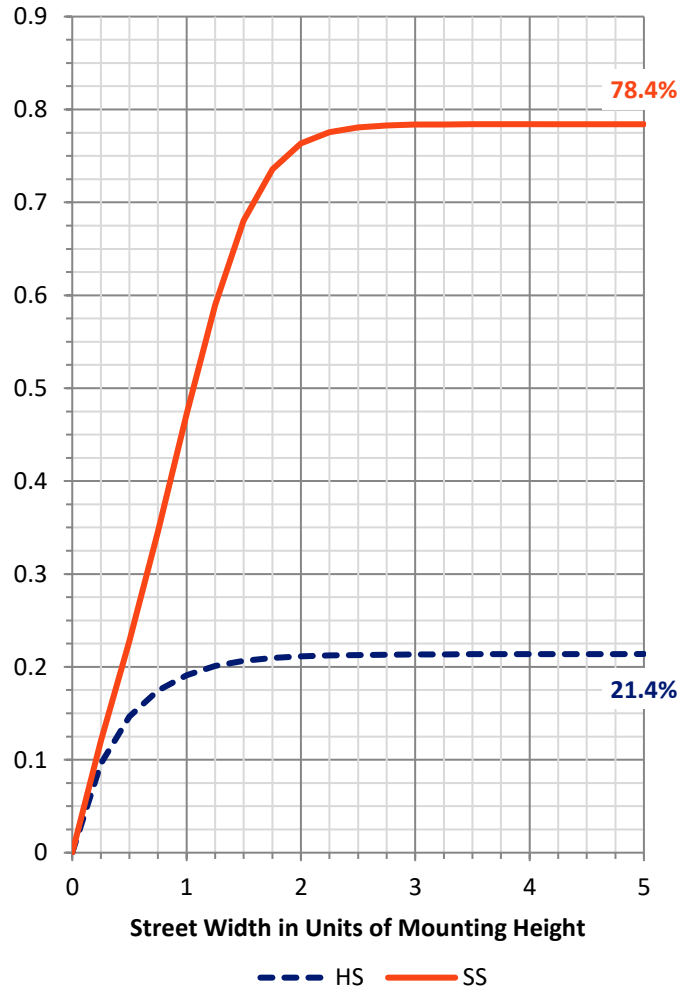
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2824.5	0.0	2824.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10286.4	0.0	10286.4
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	13110.9	0.0	13110.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.2	1.7
10°-20°	724.5	5.5
20°-30°	1175.8	9.0
30°-40°	1804.6	13.8
40°-50°	2882.1	22.0
50°-60°	4035.4	30.8
60°-70°	2069.1	15.8
70°-80°	199.2	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°	13110.9	100.0
0°-180°	13110.9	100.0

**Coefficient of Utilization**



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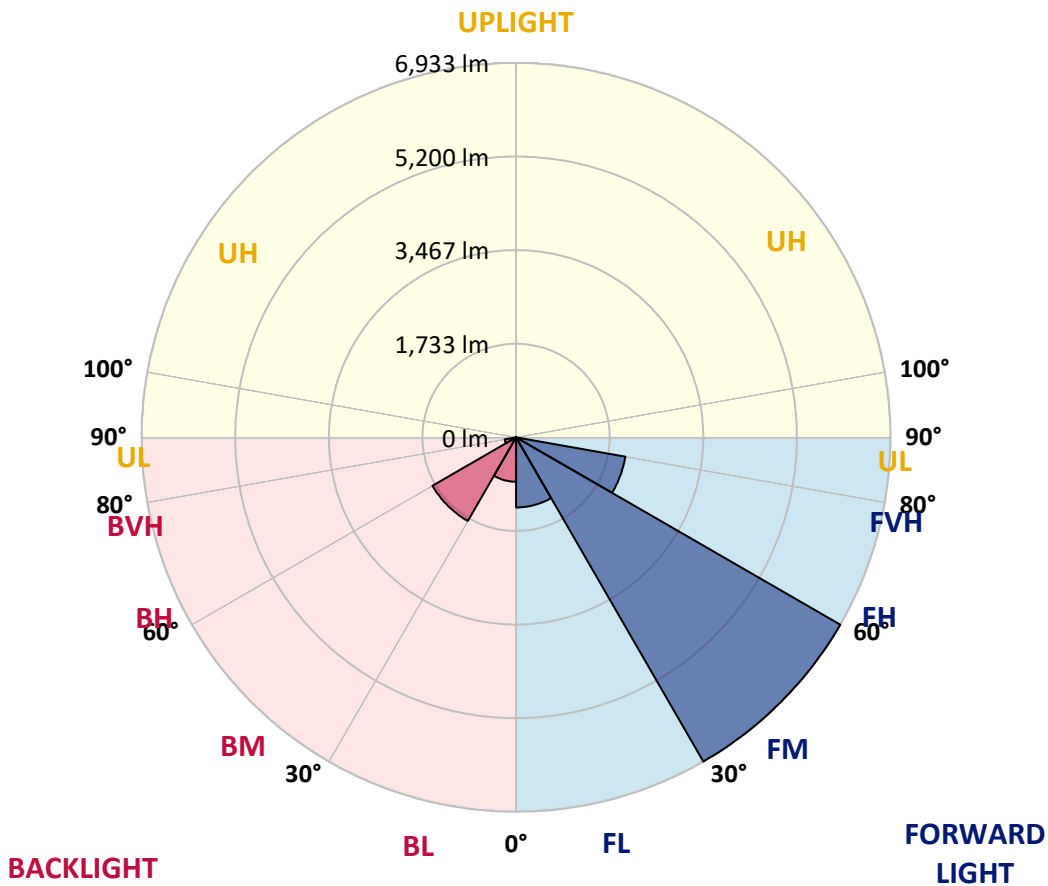
CATALOG NUMBER: GWS-SA3F-740-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.1	9.9			
FM (30°-60°)	6933.4	52.9			
FH (60°-80°)	2055.0	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	822.5	6.3	B2/1000		
BM (30°-60°)	1788.7	13.6	B2/2500		
BH (60°-80°)	213.3	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°	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2474.9	2469.6	2452.1	2392.5	2355.7	2297.8	2255.8	2201.4	2141.9	2105.0	2068.2
5°	2737.8	2723.8	2676.4	2539.7	2434.6	2320.6	2229.5	2129.6	2022.7	1952.6	1887.7
7.5°	2990.2	2969.1	2906.0	2674.7	2515.2	2352.2	2222.5	2077.0	1926.3	1821.1	1740.5
10°	3237.3	3190.0	3090.1	2806.1	2590.6	2394.2	2241.8	2075.2	1898.2	1765.0	1675.6
12.5°	3440.6	3405.6	3268.9	2930.6	2653.7	2403.0	2215.5	2061.2	1942.0	1852.6	1770.3
15°	3615.9	3577.3	3447.6	3042.8	2708.0	2368.0	2105.0	1970.1	1989.4	2024.4	1954.3
17.5°	3777.2	3736.8	3596.6	3135.7	2729.0	2282.1	1950.8	1886.0	1992.9	2124.3	2098.0
20°	3943.7	3898.1	3726.3	3211.0	2722.0	2147.1	1794.8	1814.1	1964.8	2115.6	2129.6
22.5°	4138.2	4090.9	3891.1	3307.4	2716.8	1985.9	1659.8	1751.0	1912.2	2040.2	2064.7
25°	4395.9	4339.8	4120.7	3449.4	2730.8	1838.6	1563.4	1689.6	1822.9	1938.5	1952.6
27.5°	4735.9	4664.0	4385.4	3624.7	2760.6	1722.9	1521.4	1605.5	1708.9	1812.3	1824.6
30°	5179.4	5088.2	4688.6	3777.2	2746.5	1642.3	1493.3	1521.4	1582.7	1666.9	1668.6
32.5°	5698.2	5573.7	5028.6	3908.6	2625.6	1582.7	1454.8	1435.5	1449.5	1514.4	1526.6
35°	6308.1	6146.9	5403.7	4033.1	2404.8	1467.0	1384.7	1319.8	1314.6	1346.1	1375.9
37.5°	7007.5	6814.7	5876.9	4192.6	2143.6	1346.1	1281.3	1216.4	1188.4	1204.1	1249.7
40°	7652.5	7438.6	6371.2	4385.4	1877.2	1237.4	1160.3	1093.7	1060.4	1065.7	1121.8
42.5°	8409.7	8188.8	6975.9	4637.8	1656.3	1163.8	1034.1	965.8	921.9	946.5	1011.3
45°	9559.5	9308.8	7857.5	4856.9	1481.1	1146.3	923.7	827.3	806.3	848.3	925.4
47.5°	11129.9	10823.2	9068.7	4990.1	1332.1	1162.1	846.6	715.1	720.4	767.7	844.8
50°	12688.1	12356.8	10469.1	4814.8	1209.4	1130.5	808.0	627.5	660.8	702.8	773.0
52.5°	13759.0	13327.9	11151.0	4308.2	1097.2	1011.3	804.5	545.1	608.2	622.2	681.8
55°	13801.1	13270.0	10802.2	3396.8	944.7	853.6	767.7	476.7	550.4	555.6	606.4
57.5°	12097.4	11617.2	9440.3	2332.9	839.6	625.7	611.7	417.2	452.2	496.0	527.6
60°	9203.7	8795.3	7060.0	1069.2	638.0	397.9	418.9	359.3	338.3	403.1	434.7
62.5°	5636.8	5375.7	4234.6	473.2	406.6	212.1	254.1	285.7	254.1	278.7	305.0
65°	2238.3	2122.6	1607.3	201.6	166.5	106.9	115.7	166.5	178.8	196.3	220.8
67.5°	389.1	368.1	269.9	89.4	68.4	64.9	56.1	77.1	108.7	120.9	140.2
70°	50.8	49.1	43.8	36.8	35.1	31.5	24.5	49.1	73.6	77.1	89.4
72.5°	12.3	10.5	10.5	8.8	10.5	3.5	3.5	26.3	52.6	54.3	63.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	33.3	36.8	43.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2038.4	2003.4	1991.1	1973.6	1950.8	1957.8	1926.3	1915.7	1931.5	1952.6	1947.3
5°	1852.6	1814.1	1787.8	1747.5	1740.5	1724.7	1714.2	1700.2	1717.7	1742.2	1747.5
7.5°	1705.4	1672.1	1645.8	1633.6	1624.8	1617.8	1596.7	1586.2	1586.2	1596.7	1605.5
10°	1642.3	1617.8	1612.5	1616.0	1630.1	1628.3	1609.0	1595.0	1577.5	1568.7	1579.2
12.5°	1730.0	1689.6	1682.6	1684.4	1701.9	1700.2	1679.1	1661.6	1658.1	1661.6	1694.9
15°	1878.9	1817.6	1772.0	1763.3	1772.0	1768.5	1752.7	1742.2	1747.5	1798.3	1854.4
17.5°	2012.1	1917.5	1835.1	1803.6	1801.8	1796.6	1780.8	1777.3	1803.6	1898.2	1980.6
20°	2050.7	1957.8	1840.4	1800.1	1791.3	1786.0	1768.5	1773.8	1807.1	1921.0	1991.1
22.5°	1999.9	1910.5	1787.8	1747.5	1740.5	1738.7	1721.2	1728.2	1756.2	1856.2	1914.0
25°	1903.5	1828.1	1700.2	1665.1	1665.1	1661.6	1645.8	1649.3	1666.9	1754.5	1810.6
27.5°	1786.0	1714.2	1607.3	1572.2	1577.5	1582.7	1563.4	1558.2	1572.2	1654.6	1687.9
30°	1651.1	1600.3	1516.1	1484.6	1482.8	1503.9	1477.6	1470.6	1489.8	1554.7	1561.7
32.5°	1519.6	1495.1	1435.5	1411.0	1412.7	1416.2	1402.2	1402.2	1419.7	1454.8	1453.0
35°	1391.7	1375.9	1365.4	1347.9	1346.1	1339.1	1339.1	1342.6	1361.9	1374.2	1351.4
37.5°	1269.0	1284.8	1297.0	1279.5	1265.5	1265.5	1265.5	1281.3	1298.8	1293.5	1255.0
40°	1160.3	1193.6	1232.2	1212.9	1179.6	1177.8	1184.9	1211.1	1237.4	1205.9	1170.8
42.5°	1067.4	1109.5	1163.8	1153.3	1116.5	1111.2	1116.5	1149.8	1170.8	1130.5	1092.0
45°	976.3	1028.9	1093.7	1093.7	1053.4	1048.1	1049.9	1093.7	1106.0	1058.7	1009.6
47.5°	899.2	957.0	1025.4	1025.4	992.1	981.5	990.3	1035.9	1044.6	978.0	932.5
50°	825.5	888.6	964.0	958.8	936.0	927.2	943.0	992.1	981.5	907.9	860.6
52.5°	732.6	799.3	902.7	907.9	895.7	897.4	916.7	948.2	918.4	829.0	788.7
55°	648.5	716.9	820.3	848.3	848.3	846.6	855.3	879.9	855.3	748.4	699.3
57.5°	557.4	615.2	701.1	708.1	713.4	694.1	706.4	739.7	727.4	636.2	608.2
60°	457.5	506.5	555.6	560.9	538.1	497.8	520.6	559.1	567.9	499.5	468.0
62.5°	324.3	371.6	429.4	429.4	406.6	366.3	396.1	429.4	417.2	347.0	327.8
65°	241.9	285.7	329.5	348.8	329.5	301.5	324.3	348.8	329.5	271.7	243.6
67.5°	156.0	185.8	212.1	227.9	231.4	227.9	238.4	231.4	208.6	170.0	154.2
70°	94.6	110.4	124.4	138.5	149.0	154.2	159.5	143.7	120.9	99.9	94.6
72.5°	68.4	82.4	94.6	105.2	117.4	120.9	120.9	110.4	89.4	70.1	64.9
75°	47.3	59.6	70.1	77.1	87.6	91.1	91.1	82.4	66.6	50.8	45.6
77.5°	1.8	12.3	12.3	10.5	14.0	17.5	17.5	21.0	19.3	14.0	12.3
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°	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	1957.8	2020.9	2038.4	2103.3	2161.1	2219.0	2289.1	2331.1	2394.2	2438.1	2462.6
5°	1765.0	1817.6	1880.7	1977.1	2077.0	2187.4	2320.6	2436.3	2581.8	2688.7	2723.8
7.5°	1624.8	1693.1	1766.8	1887.7	2024.4	2171.6	2359.2	2548.5	2771.1	2916.6	3009.5
10°	1598.5	1668.6	1766.8	1886.0	2029.7	2197.9	2427.5	2672.9	2951.6	3128.6	3233.8
12.5°	1724.7	1800.1	1842.1	1896.5	2005.1	2192.7	2487.1	2799.1	3126.9	3319.7	3431.9
15°	1910.5	1977.1	1908.7	1840.4	1910.5	2136.6	2520.4	2904.3	3281.1	3503.7	3619.4
17.5°	2038.4	2043.7	1894.7	1749.2	1768.5	2034.9	2532.7	3009.5	3445.9	3679.0	3799.9
20°	2026.2	1984.1	1833.4	1672.1	1612.5	1903.5	2518.7	3102.4	3612.4	3856.0	3975.2
22.5°	1931.5	1882.4	1754.5	1596.7	1481.1	1747.5	2494.2	3186.5	3764.9	4041.8	4154.0
25°	1817.6	1765.0	1659.8	1521.4	1396.9	1596.7	2474.9	3302.2	3957.7	4283.7	4371.3
27.5°	1684.4	1638.8	1549.4	1449.5	1361.9	1482.8	2469.6	3454.7	4190.8	4578.2	4639.5
30°	1554.7	1512.6	1442.5	1384.7	1347.9	1416.2	2452.1	3617.7	4469.5	4916.4	4983.0
32.5°	1430.2	1388.2	1344.4	1335.6	1337.3	1391.7	2392.5	3778.9	4800.8	5407.2	5456.3
35°	1323.3	1274.2	1256.7	1277.7	1316.3	1349.6	2224.2	3912.1	5156.6	5941.8	5982.1
37.5°	1221.7	1172.6	1170.8	1221.7	1263.7	1284.8	2026.2	4043.6	5636.8	6485.1	6536.0
40°	1128.8	1079.7	1097.2	1158.6	1191.9	1202.4	1786.0	4243.4	6145.1	7058.3	7030.3
42.5°	1049.9	999.1	1009.6	1088.5	1118.2	1146.3	1565.2	4409.9	6634.1	7601.6	7592.9
45°	972.8	934.2	927.2	1013.1	1039.4	1151.6	1403.9	4537.9	7263.4	8294.0	8308.0
47.5°	897.4	867.6	869.4	906.2	971.0	1177.8	1267.2	4622.0	8176.5	9391.2	9147.6
50°	829.0	806.3	825.5	783.5	927.2	1144.5	1149.8	4604.5	9196.6	10442.8	9953.8
52.5°	753.7	748.4	757.2	655.5	857.1	1009.6	1039.4	4371.3	9675.1	11161.5	10882.8
55°	676.6	674.8	604.7	524.1	716.9	806.3	890.4	3647.5	9659.4	11543.6	11881.8
57.5°	585.4	571.4	459.2	427.7	557.4	560.9	811.5	2389.0	8560.4	10628.6	11329.7
60°	443.4	432.9	336.5	347.0	389.1	359.3	646.8	1190.1	6397.5	8280.0	9070.4
62.5°	306.7	292.7	250.6	268.2	250.6	205.1	396.1	588.9	3875.3	5228.4	5945.3
65°	224.4	208.6	171.8	147.2	117.4	117.4	150.7	226.1	1500.3	2222.5	2679.9
67.5°	138.5	131.5	101.7	73.6	71.9	77.1	78.9	112.2	241.9	385.6	471.5
70°	89.4	82.4	68.4	47.3	43.8	45.6	47.3	52.6	61.3	66.6	80.6
72.5°	61.3	57.8	49.1	26.3	21.0	22.8	24.5	24.5	29.8	28.0	33.3
75°	43.8	40.3	35.1	12.3	7.0	8.8	10.5	8.8	10.5	7.0	8.8
77.5°	12.3	12.3	8.8	1.8	0.0	1.8	3.5	3.5	1.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	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: P636279  
 CATALOG NUMBER: GWS-SA3F-740-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7	2227.7
2.5°	2525.7	2566.0	2581.8	2559.0	2578.3	2546.7	2534.5	2487.1	2483.6	2474.9
5°	2865.7	2956.9	3011.2	3044.5	3006.0	2963.9	2900.8	2792.1	2758.8	2737.8
7.5°	3200.5	3342.5	3435.4	3479.2	3468.7	3382.8	3268.9	3086.6	3021.7	2990.2
10°	3491.5	3665.0	3777.2	3831.5	3808.7	3733.3	3570.3	3342.5	3256.6	3237.3
12.5°	3694.8	3854.3	3931.4	3978.7	3980.5	3950.7	3796.4	3566.8	3465.2	3440.6
15°	3822.7	3891.1	3892.8	3920.9	3970.0	4036.6	3964.7	3761.4	3652.7	3615.9
17.5°	3903.4	3828.0	3750.9	3757.9	3838.5	4015.5	4089.1	3933.2	3817.5	3777.2
20°	3961.2	3722.8	3579.1	3580.9	3663.2	3931.4	4175.0	4099.7	3980.5	3943.7
22.5°	3998.0	3629.9	3424.9	3419.6	3507.2	3831.5	4253.9	4297.7	4180.3	4138.2
25°	4073.4	3586.1	3332.0	3361.8	3438.9	3799.9	4360.8	4560.6	4452.0	4395.9
27.5°	4208.3	3629.9	3323.2	3391.6	3479.2	3892.8	4546.6	4911.2	4799.0	4735.9
30°	4441.5	3794.7	3458.2	3552.8	3658.0	4136.5	4858.6	5400.2	5238.9	5179.4
32.5°	4816.5	4136.5	3875.3	4078.6	4180.3	4536.1	5326.6	5948.8	5817.4	5698.2
35°	5333.6	4916.4	4886.6	5359.9	5335.3	5293.3	5901.5	6621.9	6423.8	6308.1
37.5°	6045.2	6171.4	6392.3	6862.0	6846.2	6525.5	6656.9	7258.1	7156.4	7007.5
40°	6933.9	7202.0	7577.1	8250.2	8039.8	7636.7	7584.1	7910.1	7827.7	7652.5
42.5°	7457.9	7920.6	8635.8	9240.5	9072.2	8367.6	8308.0	8781.2	8600.7	8409.7
45°	7701.6	8506.1	9908.3	10726.8	10216.7	8853.1	8830.3	9917.0	9815.4	9559.5
47.5°	7813.7	9096.7	11398.1	12637.3	11683.8	9279.0	9196.6	11564.6	11431.4	11129.9
50°	7938.2	9911.8	13192.9	14851.0	13455.8	9761.0	9820.6	13100.0	13043.9	12688.1
52.5°	8211.6	10774.1	15403.1	17382.0	15604.7	10516.5	10891.5	14547.8	14169.2	13759.0
55°	8621.7	11713.6	17702.7	19967.2	17797.4	11531.3	12050.1	15317.2	14255.1	13801.1
57.5°	8167.8	11948.4	19064.6	21772.6	18770.1	11534.8	11070.3	13983.4	12537.4	12097.4
60°	6481.6	11115.9	18540.5	21381.7	17941.1	10243.0	8476.3	10917.8	9498.1	9203.7
62.5°	4381.9	9322.8	16321.5	18083.0	15355.8	8057.4	5508.9	7100.4	5880.5	5636.8
65°	2401.3	6954.9	13187.6	13680.2	12018.6	5628.1	2834.2	3081.3	2346.9	2238.3
67.5°	662.5	4841.1	9703.2	9075.7	8432.4	3665.0	732.6	550.4	392.6	389.1
70°	166.5	3202.3	5813.8	5992.6	5170.6	2346.9	140.2	66.6	52.6	50.8
72.5°	70.1	1377.7	2758.8	3170.7	2646.6	1086.7	50.8	19.3	15.8	12.3
75°	8.8	110.4	234.9	355.8	243.6	117.4	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)