

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: P637764

Luminaire Tested: GWS-SA4D-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637764  
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-SA4D-740-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

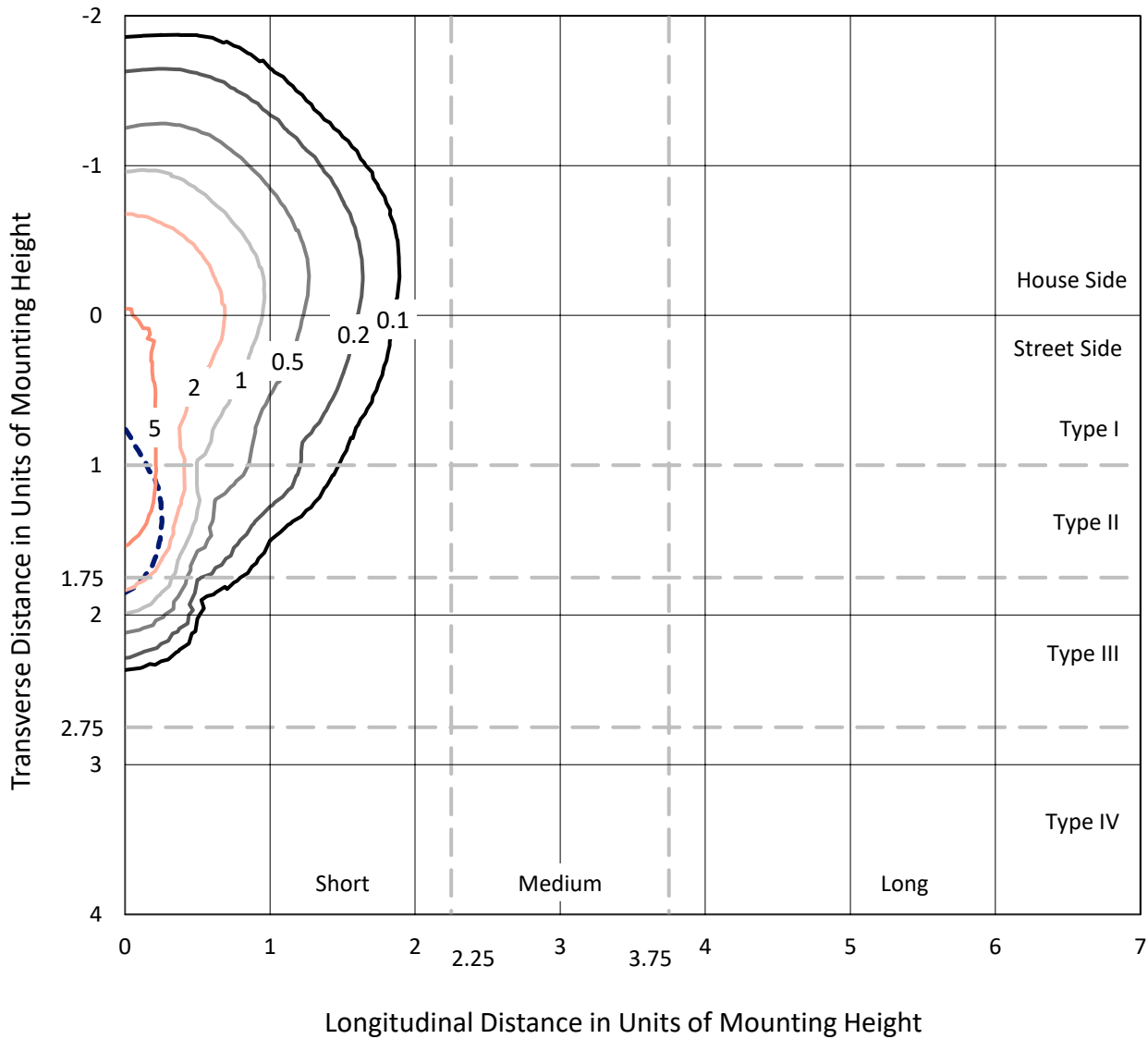
Lumens per Lamp: N/A  
Luminaire Lumens: 13131.5 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

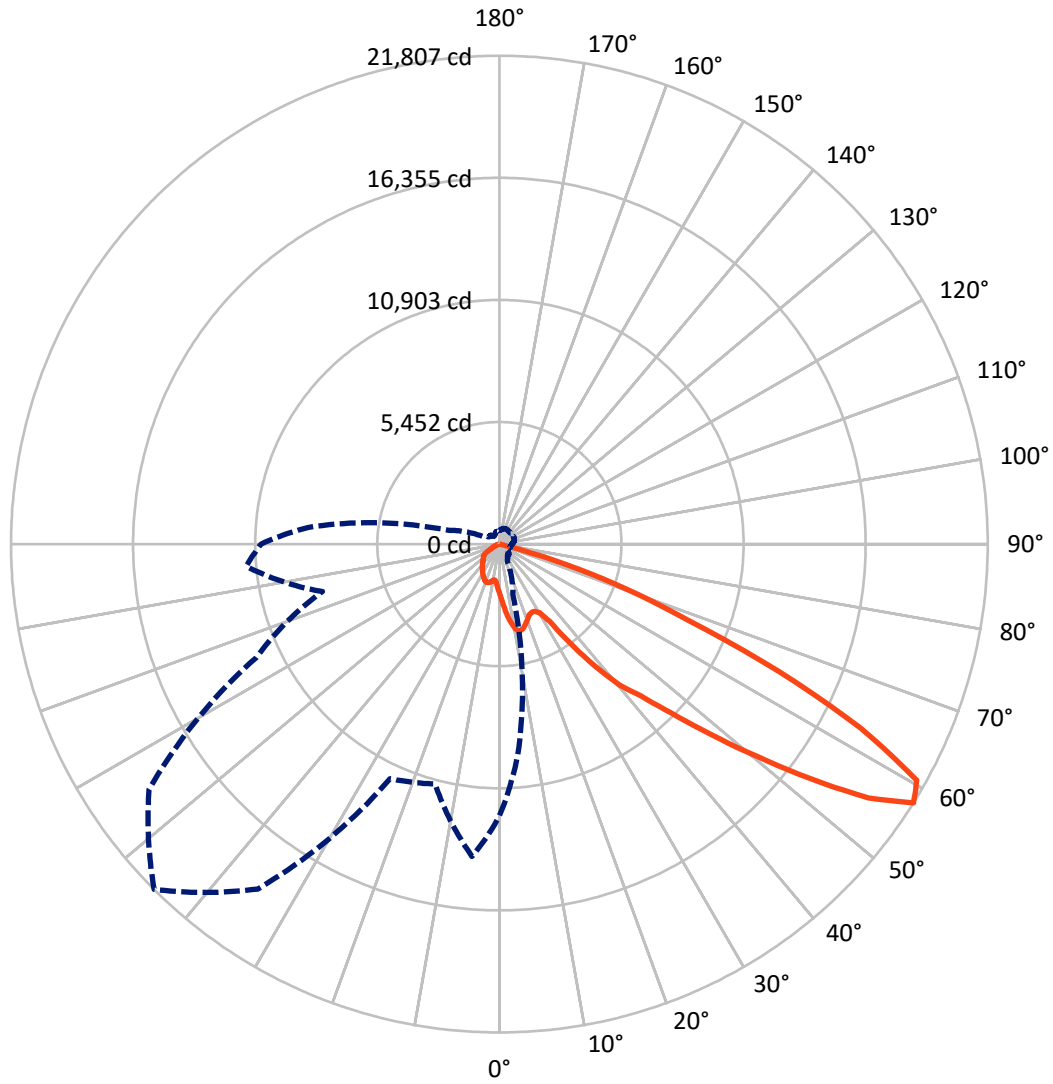
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	2829.0	0.0	2829.0
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10302.5	0.0	10302.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	13131.5	0.0	13131.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.5	1.7
10°-20°	725.7	5.5
20°-30°	1177.7	9.0
30°-40°	1807.4	13.8
40°-50°	2886.6	22.0
50°-60°	4041.8	30.8
60°-70°	2072.3	15.8
70°-80°	199.5	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°	13131.5	100.0
0°-180°	13131.5	100.0

**Coefficient of Utilization**



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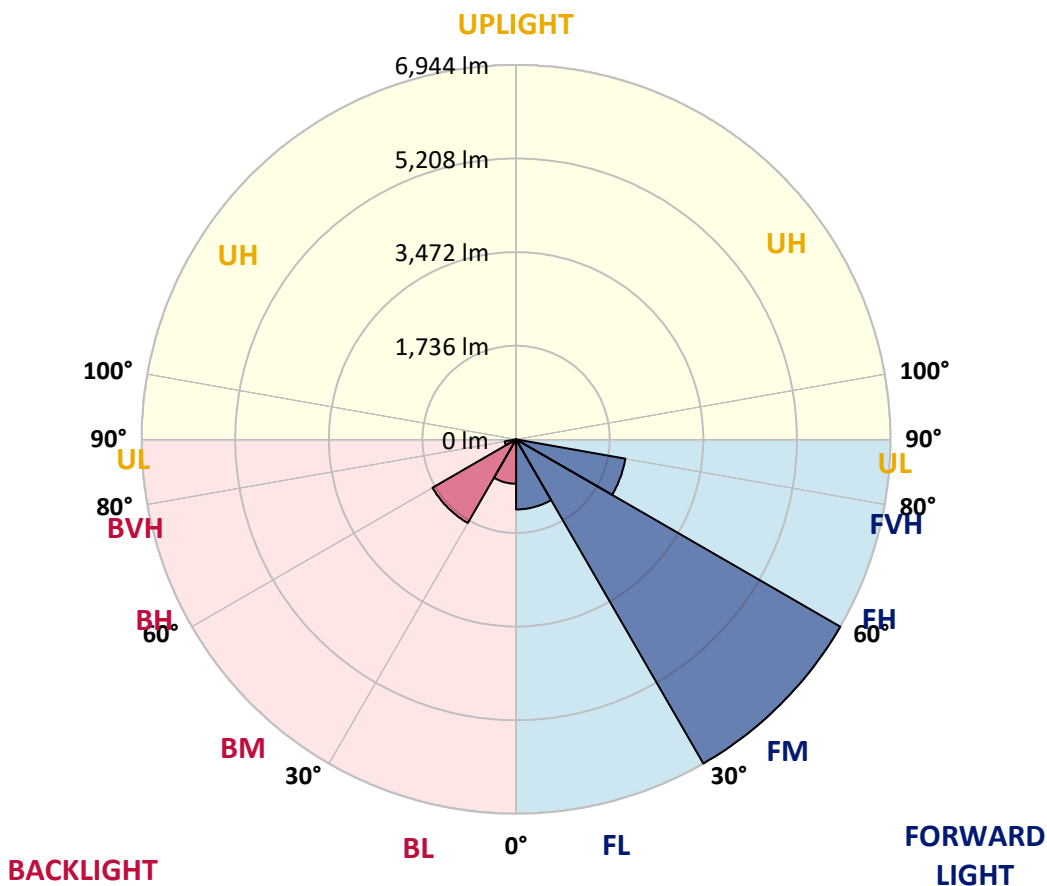
CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.1	9.9			
FM (30°-60°)	6944.2	52.9			
FH (60°-80°)	2058.2	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	823.7	6.3	B2/1000		
BM (30°-60°)	1791.6	13.6	B2/2500		
BH (60°-80°)	213.7	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°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	2478.8	2473.5	2455.9	2396.3	2359.4	2301.5	2259.3	2204.9	2145.2	2108.4	2071.5
5°	2742.1	2728.0	2680.6	2543.7	2438.4	2324.3	2233.0	2132.9	2025.8	1955.6	1890.7
7.5°	2994.9	2973.8	2910.6	2678.9	2519.1	2355.9	2226.0	2080.3	1929.3	1824.0	1743.2
10°	3242.4	3195.0	3094.9	2810.6	2594.6	2398.0	2245.3	2078.5	1901.2	1767.8	1678.3
12.5°	3446.0	3410.9	3274.0	2935.2	2657.8	2406.8	2218.9	2064.5	1945.1	1855.6	1773.1
15°	3621.6	3583.0	3453.1	3047.5	2712.2	2371.7	2108.4	1973.2	1992.5	2027.6	1957.4
17.5°	3783.1	3742.7	3602.3	3140.6	2733.3	2285.7	1953.9	1888.9	1996.0	2127.7	2101.3
20°	3949.9	3904.2	3732.2	3216.1	2726.3	2150.5	1797.6	1816.9	1967.9	2118.9	2132.9
22.5°	4144.7	4097.3	3897.2	3312.6	2721.0	1989.0	1662.5	1753.7	1915.2	2043.4	2068.0
25°	4402.8	4346.6	4127.2	3454.8	2735.1	1841.5	1565.9	1692.3	1825.7	1941.6	1955.6
27.5°	4743.4	4671.4	4392.3	3630.4	2764.9	1725.7	1523.8	1608.0	1711.6	1815.2	1827.5
30°	5187.5	5096.2	4696.0	3783.1	2750.9	1644.9	1495.7	1523.8	1585.2	1669.5	1671.2
32.5°	5707.1	5582.5	5036.5	3914.8	2629.7	1585.2	1457.1	1437.8	1451.8	1516.7	1529.0
35°	6318.0	6156.5	5412.2	4039.4	2408.5	1469.4	1386.8	1321.9	1316.6	1348.2	1378.1
37.5°	7018.5	6825.4	5886.2	4199.1	2147.0	1348.2	1283.3	1218.3	1190.2	1206.0	1251.7
40°	7664.5	7450.3	6381.2	4392.3	1880.1	1239.4	1162.1	1095.4	1062.1	1067.3	1123.5
42.5°	8422.9	8201.7	6986.9	4645.0	1658.9	1165.6	1035.7	967.3	923.4	948.0	1012.9
45°	9574.5	9323.4	7869.9	4864.5	1483.4	1148.1	925.1	828.6	807.5	849.7	926.9
47.5°	11147.4	10840.2	9082.9	4997.9	1334.2	1163.9	847.9	716.2	721.5	768.9	846.1
50°	12708.0	12376.3	10485.6	4822.3	1211.3	1132.3	809.3	628.5	661.8	704.0	774.2
52.5°	13780.6	13348.8	11168.5	4315.0	1098.9	1012.9	805.8	546.0	609.2	623.2	682.9
55°	13822.8	13290.9	10819.1	3402.2	946.2	854.9	768.9	477.5	551.2	556.5	607.4
57.5°	12116.4	11635.4	9455.1	2336.6	840.9	626.7	612.7	417.8	452.9	496.8	528.4
60°	9218.1	8809.1	7071.1	1070.9	639.0	398.5	419.6	359.9	338.8	403.8	435.4
62.5°	5645.7	5384.1	4241.3	474.0	407.3	212.4	254.5	286.1	254.5	279.1	305.5
65°	2241.8	2125.9	1609.8	201.9	166.8	107.1	115.9	166.8	179.1	196.6	221.2
67.5°	389.7	368.7	270.3	89.5	68.5	65.0	56.2	77.2	108.8	121.1	140.4
70°	50.9	49.2	43.9	36.9	35.1	31.6	24.6	49.2	73.7	77.2	89.5
72.5°	12.3	10.5	10.5	8.8	10.5	3.5	3.5	26.3	52.7	54.4	63.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	33.4	36.9	43.9
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°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	2041.6	2006.5	1994.2	1976.7	1953.9	1960.9	1929.3	1918.8	1934.6	1955.6	1950.4
5°	1855.6	1816.9	1790.6	1750.2	1743.2	1727.4	1716.9	1702.8	1720.4	1745.0	1750.2
7.5°	1708.1	1674.7	1648.4	1636.1	1627.3	1620.3	1599.3	1588.7	1588.7	1599.3	1608.0
10°	1644.9	1620.3	1615.1	1618.6	1632.6	1630.9	1611.5	1597.5	1579.9	1571.2	1581.7
12.5°	1732.7	1692.3	1685.3	1687.0	1704.6	1702.8	1681.8	1664.2	1660.7	1664.2	1697.6
15°	1881.9	1820.5	1774.8	1766.0	1774.8	1771.3	1755.5	1745.0	1750.2	1801.1	1857.3
17.5°	2015.3	1920.5	1838.0	1806.4	1804.7	1799.4	1783.6	1780.1	1806.4	1901.2	1983.7
20°	2053.9	1960.9	1843.3	1802.9	1794.1	1788.9	1771.3	1776.6	1809.9	1924.0	1994.2
22.5°	2003.0	1913.5	1790.6	1750.2	1743.2	1741.5	1723.9	1730.9	1759.0	1859.1	1917.0
25°	1906.5	1831.0	1702.8	1667.7	1667.7	1664.2	1648.4	1651.9	1669.5	1757.3	1813.4
27.5°	1788.9	1716.9	1609.8	1574.7	1579.9	1585.2	1565.9	1560.6	1574.7	1657.2	1690.5
30°	1653.7	1602.8	1518.5	1486.9	1485.2	1506.2	1479.9	1472.9	1492.2	1557.1	1564.1
32.5°	1522.0	1497.4	1437.8	1413.2	1414.9	1418.4	1404.4	1404.4	1422.0	1457.1	1455.3
35°	1393.9	1378.1	1367.5	1350.0	1348.2	1341.2	1341.2	1344.7	1364.0	1376.3	1353.5
37.5°	1271.0	1286.8	1299.1	1281.5	1267.5	1267.5	1267.5	1283.3	1300.8	1295.6	1256.9
40°	1162.1	1195.5	1234.1	1214.8	1181.4	1179.7	1186.7	1213.0	1239.4	1207.8	1172.7
42.5°	1069.1	1111.2	1165.6	1155.1	1118.3	1113.0	1118.3	1151.6	1172.7	1132.3	1093.7
45°	977.8	1030.5	1095.4	1095.4	1055.1	1049.8	1051.5	1095.4	1107.7	1060.3	1011.2
47.5°	900.6	958.5	1027.0	1027.0	993.6	983.1	991.9	1037.5	1046.3	979.6	933.9
50°	826.8	890.0	965.5	960.3	937.4	928.7	944.5	993.6	983.1	909.3	861.9
52.5°	733.8	800.5	904.1	909.3	897.1	898.8	918.1	949.7	919.9	830.3	790.0
55°	649.5	718.0	821.6	849.7	849.7	847.9	856.7	881.3	856.7	749.6	700.4
57.5°	558.2	616.2	702.2	709.2	714.5	695.2	707.5	740.8	728.5	637.2	609.2
60°	458.2	507.3	556.5	561.8	538.9	498.6	521.4	560.0	568.8	500.3	468.7
62.5°	324.8	372.2	430.1	430.1	407.3	366.9	396.7	430.1	417.8	347.6	328.3
65°	242.3	286.1	330.0	349.3	330.0	301.9	324.8	349.3	330.0	272.1	244.0
67.5°	156.2	186.1	212.4	228.2	231.7	228.2	238.7	231.7	208.9	170.3	154.5
70°	94.8	110.6	124.6	138.7	149.2	154.5	159.8	144.0	121.1	100.1	94.8
72.5°	68.5	82.5	94.8	105.3	117.6	121.1	121.1	110.6	89.5	70.2	65.0
75°	47.4	59.7	70.2	77.2	87.8	91.3	91.3	82.5	66.7	50.9	45.6
77.5°	1.8	12.3	12.3	10.5	14.0	17.6	17.6	21.1	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°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	1960.9	2024.1	2041.6	2106.6	2164.5	2222.5	2292.7	2334.8	2398.0	2441.9	2466.5
5°	1767.8	1820.5	1883.6	1980.2	2080.3	2190.9	2324.3	2440.1	2585.8	2692.9	2728.0
7.5°	1627.3	1695.8	1769.5	1890.7	2027.6	2175.1	2362.9	2552.5	2775.4	2921.1	3014.2
10°	1601.0	1671.2	1769.5	1888.9	2032.9	2201.4	2431.4	2677.1	2956.3	3133.6	3238.9
12.5°	1727.4	1802.9	1845.0	1899.4	2008.3	2196.1	2491.0	2803.5	3131.8	3324.9	3437.3
15°	1913.5	1980.2	1911.7	1843.3	1913.5	2140.0	2524.4	2908.9	3286.3	3509.2	3625.1
17.5°	2041.6	2046.9	1897.7	1752.0	1771.3	2038.1	2536.7	3014.2	3451.3	3684.8	3805.9
20°	2029.4	1987.2	1836.2	1674.7	1615.1	1906.5	2522.6	3107.2	3618.1	3862.1	3981.5
22.5°	1934.6	1885.4	1757.3	1599.3	1483.4	1750.2	2498.1	3191.5	3770.8	4048.2	4160.5
25°	1820.5	1767.8	1662.5	1523.8	1399.1	1599.3	2478.8	3307.4	3963.9	4290.4	4378.2
27.5°	1687.0	1641.4	1551.9	1451.8	1364.0	1485.2	2473.5	3460.1	4197.4	4585.4	4646.8
30°	1557.1	1515.0	1444.8	1386.8	1350.0	1418.4	2455.9	3623.3	4476.5	4924.2	4990.9
32.5°	1432.5	1390.4	1346.5	1337.7	1339.4	1393.9	2396.3	3784.9	4808.3	5415.7	5464.9
35°	1325.4	1276.2	1258.7	1279.8	1318.4	1351.7	2227.7	3918.3	5164.7	5951.1	5991.5
37.5°	1223.6	1174.4	1172.7	1223.6	1265.7	1286.8	2029.4	4049.9	5645.7	6495.3	6546.2
40°	1130.5	1081.4	1098.9	1160.4	1193.7	1204.3	1788.9	4250.1	6154.8	7069.4	7041.3
42.5°	1051.5	1000.6	1011.2	1090.2	1120.0	1148.1	1567.7	4416.8	6644.6	7613.6	7604.8
45°	974.3	935.7	928.7	1014.7	1041.0	1153.4	1406.2	4545.0	7274.8	8307.0	8321.1
47.5°	898.8	869.0	870.7	907.6	972.5	1179.7	1269.2	4629.2	8189.4	9406.0	9161.9
50°	830.3	807.5	826.8	784.7	928.7	1146.3	1151.6	4611.7	9211.1	10459.2	9969.5
52.5°	754.9	749.6	758.4	656.6	858.4	1011.2	1041.0	4378.2	9690.3	11179.0	10899.9
55°	677.6	675.9	605.6	524.9	718.0	807.5	891.8	3653.2	9674.5	11561.7	11900.5
57.5°	586.3	572.3	459.9	428.3	558.2	561.8	812.8	2392.7	8573.8	10645.3	11347.5
60°	444.1	433.6	337.1	347.6	389.7	359.9	647.8	1192.0	6407.6	8293.0	9084.7
62.5°	307.2	293.2	251.0	268.6	251.0	205.4	396.7	589.8	3881.4	5236.6	5954.6
65°	224.7	208.9	172.0	147.5	117.6	117.6	151.0	226.5	1502.7	2226.0	2684.2
67.5°	138.7	131.7	101.8	73.7	72.0	77.2	79.0	112.4	242.3	386.2	472.2
70°	89.5	82.5	68.5	47.4	43.9	45.6	47.4	52.7	61.4	66.7	80.8
72.5°	61.4	57.9	49.2	26.3	21.1	22.8	24.6	24.6	29.8	28.1	33.4
75°	43.9	40.4	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: P637764

CATALOG NUMBER: GWS-SA4D-740-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2	2231.2
2.5°	2529.7	2570.0	2585.8	2563.0	2582.3	2550.7	2538.4	2491.0	2487.5	2478.8
5°	2870.2	2961.5	3015.9	3049.3	3010.7	2968.5	2905.3	2796.5	2763.2	2742.1
7.5°	3205.5	3347.7	3440.8	3484.7	3474.1	3388.1	3274.0	3091.4	3026.5	2994.9
10°	3496.9	3670.7	3783.1	3837.5	3814.7	3739.2	3575.9	3347.7	3261.7	3242.4
12.5°	3700.6	3860.3	3937.6	3985.0	3986.7	3956.9	3802.4	3572.4	3470.6	3446.0
15°	3828.7	3897.2	3899.0	3927.0	3976.2	4042.9	3970.9	3767.3	3658.5	3621.6
17.5°	3909.5	3834.0	3756.8	3763.8	3844.5	4021.8	4095.6	3939.3	3823.5	3783.1
20°	3967.4	3728.7	3584.7	3586.5	3669.0	3937.6	4181.6	4106.1	3986.7	3949.9
22.5°	4004.3	3635.6	3430.2	3425.0	3512.7	3837.5	4260.6	4304.5	4186.9	4144.7
25°	4079.8	3591.7	3337.2	3367.0	3444.3	3805.9	4367.7	4567.8	4459.0	4402.8
27.5°	4214.9	3635.6	3328.4	3396.9	3484.7	3899.0	4553.8	4918.9	4806.6	4743.4
30°	4448.4	3800.7	3463.6	3558.4	3663.7	4143.0	4866.2	5408.7	5247.2	5187.5
32.5°	4824.1	4143.0	3881.4	4085.0	4186.9	4543.2	5335.0	5958.2	5826.5	5707.1
35°	5342.0	4924.2	4894.3	5368.3	5343.7	5301.6	5910.8	6632.3	6433.9	6318.0
37.5°	6054.7	6181.1	6402.3	6872.8	6857.0	6535.7	6667.4	7269.5	7167.7	7018.5
40°	6944.7	7213.3	7589.0	8263.1	8052.5	7648.7	7596.0	7922.6	7840.0	7664.5
42.5°	7469.6	7933.1	8649.3	9255.0	9086.5	8380.7	8321.1	8795.0	8614.2	8422.9
45°	7713.7	8519.4	9923.8	10743.6	10232.8	8867.0	8844.2	9932.6	9830.8	9574.5
47.5°	7826.0	9111.0	11416.0	12657.1	11702.1	9293.6	9211.1	11582.8	11449.4	11147.4
50°	7950.6	9927.3	13213.6	14874.3	13476.9	9776.4	9836.0	13120.6	13064.4	12708.0
52.5°	8224.5	10791.0	15427.3	17409.3	15629.2	10533.0	10908.7	14570.6	14191.4	13780.6
55°	8635.3	11732.0	17730.5	19998.6	17825.3	11549.4	12069.0	15341.3	14277.5	13822.8
57.5°	8180.6	11967.2	19094.5	21806.8	18799.6	11552.9	11087.7	14005.4	12557.1	12116.4
60°	6491.8	11133.4	18569.6	21415.3	17969.3	10259.1	8489.6	10935.0	9513.0	9218.1
62.5°	4388.7	9337.5	16347.2	18111.5	15379.9	8070.0	5517.5	7111.5	5889.7	5645.7
65°	2405.0	6965.8	13208.4	13701.7	12037.4	5636.9	2838.6	3086.2	2350.6	2241.8
67.5°	663.6	4848.7	9718.4	9090.0	8445.7	3670.7	733.8	551.2	393.2	389.7
70°	166.8	3207.3	5823.0	6002.0	5178.7	2350.6	140.4	66.7	52.7	50.9
72.5°	70.2	1379.8	2763.2	3175.7	2650.8	1088.4	50.9	19.3	15.8	12.3
75°	8.8	110.6	235.2	356.4	244.0	117.6	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)