

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: P637768

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-740-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

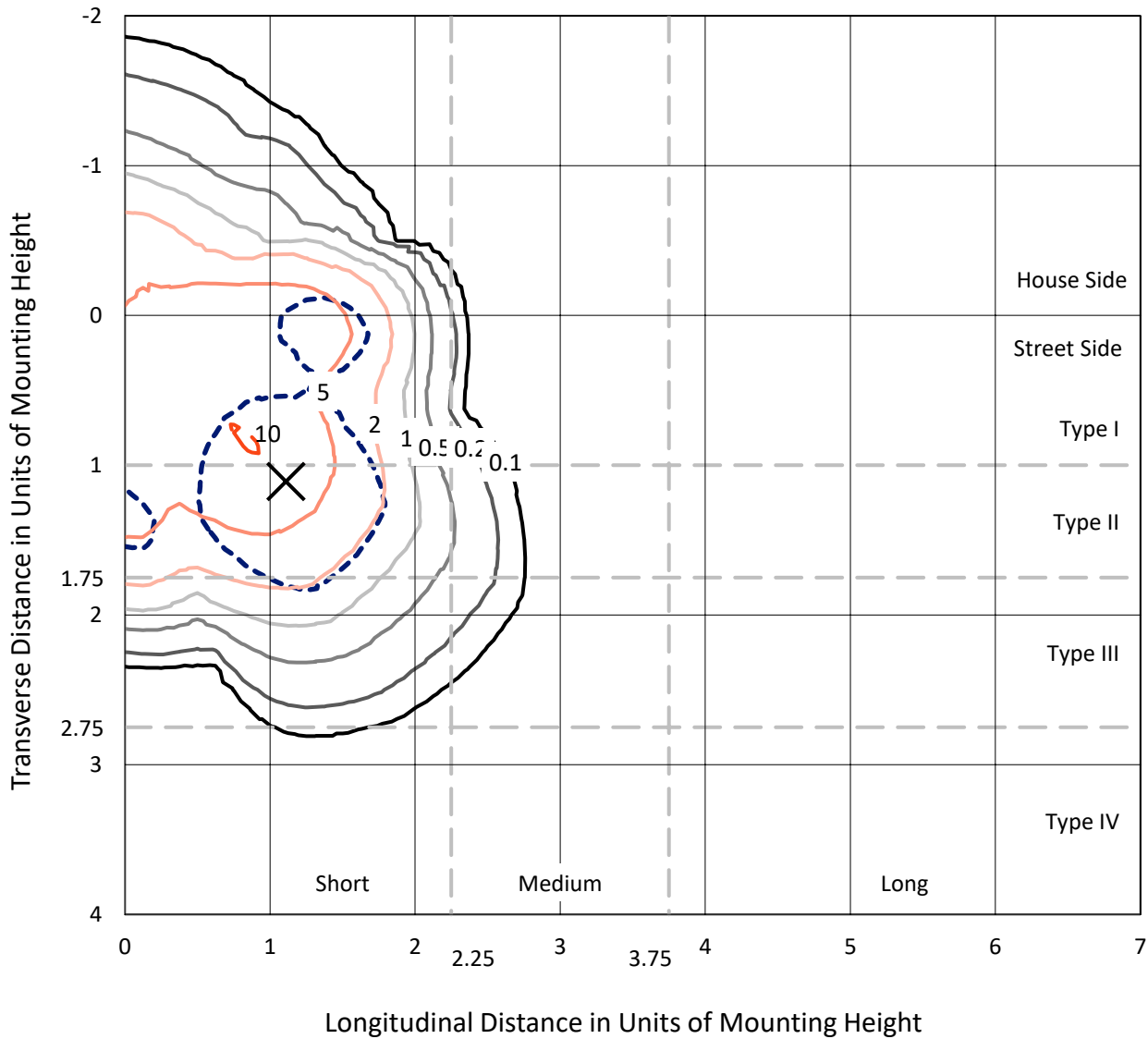
Lumens per Lamp: N/A  
Luminaire Lumens: 13064.8 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P637768  
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

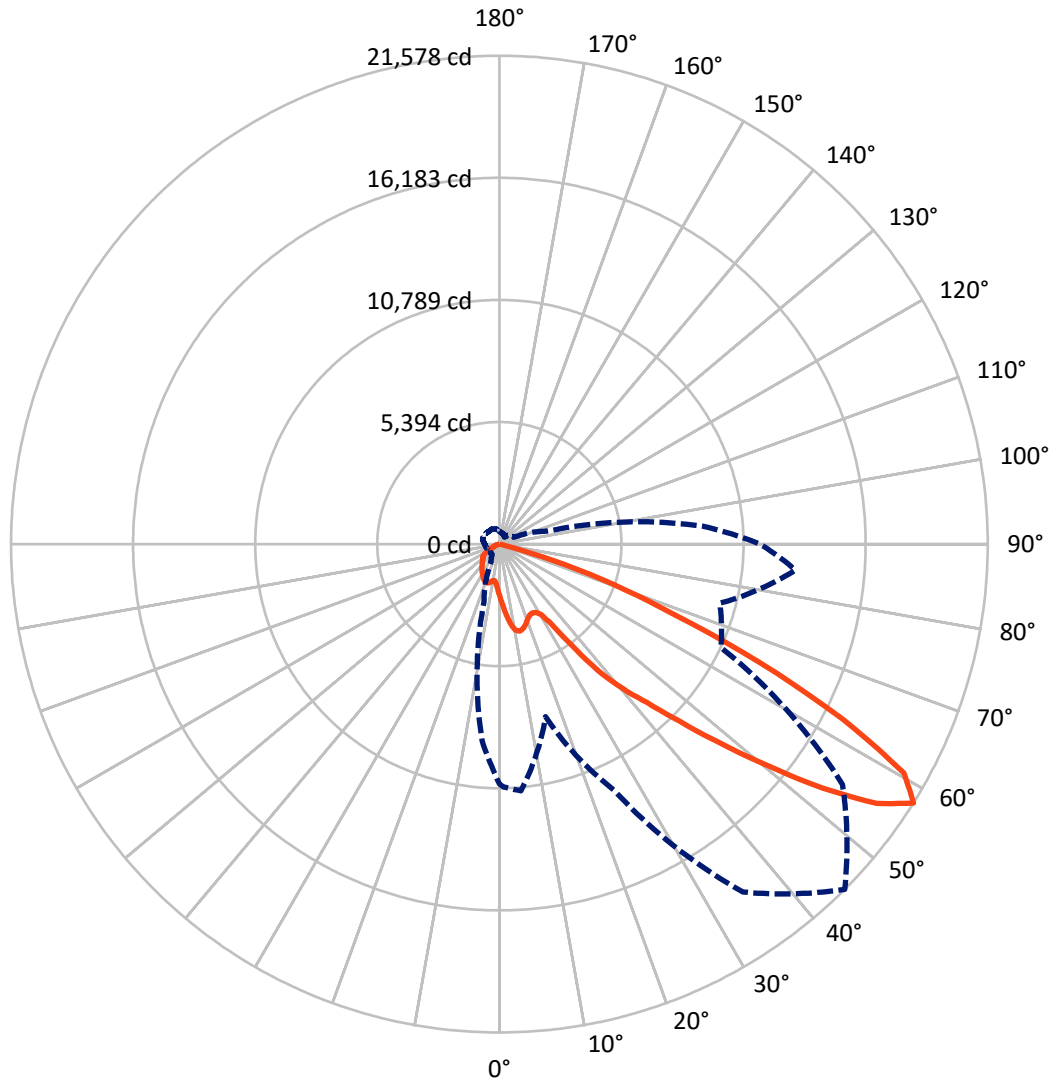
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P637768  
CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637768  
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2925.6	0.0	2925.6
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	10139.2	0.0	10139.2
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	13064.8	0.0	13064.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.9	1.7
10°-20°	730.8	5.6
20°-30°	1187.1	9.1
30°-40°	1834.2	14.0
40°-50°	2941.2	22.5
50°-60°	4019.9	30.8
60°-70°	1946.9	14.9
70°-80°	178.3	1.4
80°-90°	0.5	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°	13064.8	100.0
0°-180°	13064.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637768

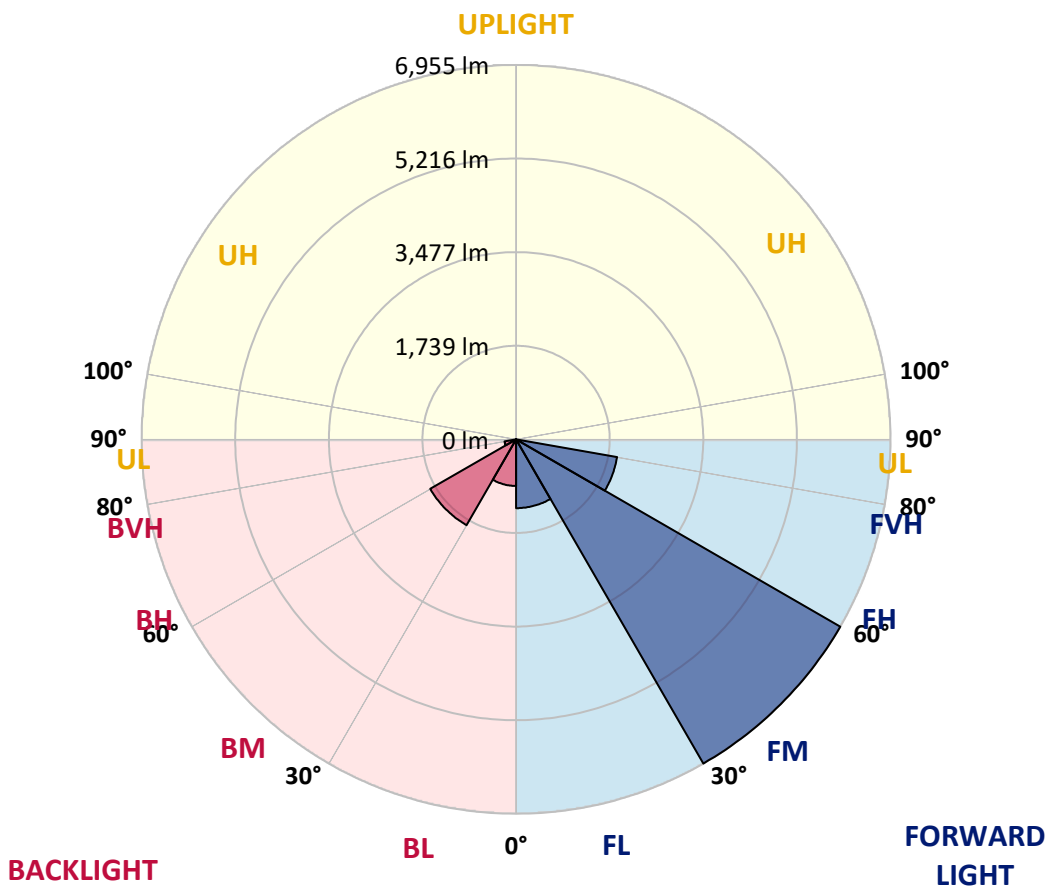
CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.1	9.8			
FM (30°-60°)	6954.7	53.2			
FH (60°-80°)	1905.9	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	865.6	6.6	B2/1000		
BM (30°-60°)	1840.6	14.1	B2/2500		
BH (60°-80°)	219.3	1.7	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





REPORT NUMBER: P637768

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

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2487.6	2503.4	2529.8	2585.9	2633.3	2664.9	2679.0	2675.5	2656.2	2642.1	2614.0
5°	2754.5	2754.5	2805.4	2933.5	3031.9	3093.3	3124.9	3105.6	3067.0	3005.5	2910.7
7.5°	2988.0	2996.7	3082.8	3265.4	3414.6	3502.4	3553.3	3542.7	3474.3	3356.6	3167.0
10°	3170.6	3181.1	3295.2	3518.2	3693.7	3783.2	3858.7	3865.8	3790.3	3634.0	3416.3
12.5°	3347.9	3358.4	3477.8	3692.0	3846.4	3883.3	3950.0	3976.4	3957.0	3846.4	3620.0
15°	3539.2	3563.8	3665.6	3825.4	3890.3	3846.4	3890.3	3937.7	4002.7	3992.2	3788.5
17.5°	3727.1	3744.6	3848.2	3904.4	3832.4	3718.3	3739.4	3795.5	3943.0	4087.0	3955.3
20°	3900.9	3925.4	4011.5	3937.7	3720.0	3542.7	3544.5	3618.2	3842.9	4144.9	4125.6
22.5°	4083.4	4120.3	4181.8	3974.6	3616.5	3404.0	3412.8	3479.5	3763.9	4199.3	4318.7
25°	4322.2	4357.3	4397.7	4065.9	3583.1	3335.6	3368.9	3430.4	3763.9	4292.4	4557.4
27.5°	4645.2	4669.8	4671.6	4236.2	3641.0	3346.1	3416.3	3486.6	3876.3	4478.4	4877.0
30°	5050.8	5089.4	5038.5	4501.3	3821.9	3486.6	3590.1	3677.9	4118.6	4792.7	5347.5
32.5°	5544.1	5598.5	5530.0	4894.5	4199.3	3971.1	4158.9	4209.8	4504.8	5247.4	5881.1
35°	6123.4	6169.1	6095.3	5438.7	5080.6	5122.7	5463.3	5398.4	5280.7	5807.4	6504.4
37.5°	6758.9	6801.1	6658.9	6263.9	6383.2	6565.8	7110.0	6887.1	6507.9	6528.9	7180.3
40°	7341.8	7387.4	7164.5	7160.9	7406.7	7740.3	8396.9	8089.6	7573.5	7473.4	7814.0
42.5°	7945.7	7977.3	7775.4	7638.5	8196.7	8883.2	9578.4	9164.0	8279.2	8170.4	8607.5
45°	8807.7	8874.4	8514.5	7873.7	8907.7	10198.1	11167.1	10357.8	8760.3	8672.5	9822.4
47.5°	10075.2	10124.3	9390.5	8021.2	9569.6	11836.0	13152.7	11906.2	9183.4	8983.2	11483.1
50°	11123.3	11156.6	10196.3	8182.7	10273.6	13602.1	15415.6	13742.6	9659.1	9497.6	13033.3
52.5°	11895.7	12022.1	11254.9	8514.5	11198.7	15678.9	17920.8	15917.7	10401.7	10491.3	14318.4
55°	12055.5	12227.5	11978.2	8718.1	12013.3	17794.4	20234.6	17864.6	11142.6	11244.4	14750.3
57.5°	10594.8	10731.8	10938.9	7896.5	11994.0	18763.5	21577.6	18510.7	10805.5	10084.0	13133.4
60°	7936.9	8031.7	8407.4	6035.6	11030.2	17906.8	20531.3	17411.7	9448.5	7694.6	10006.7
62.5°	4706.7	4748.8	5224.6	3909.6	9155.3	15420.9	17027.2	15024.1	7466.4	5175.4	6128.7
65°	1806.5	1788.9	2152.3	1929.4	6732.6	12283.7	12664.6	11453.3	5122.7	2371.8	2336.7
67.5°	279.1	266.8	359.9	570.6	4855.9	8512.7	8356.5	8254.7	3209.2	553.0	482.8
70°	63.2	63.2	77.2	168.5	2966.9	5001.6	5352.7	5103.4	2054.0	117.6	63.2
72.5°	29.8	29.8	36.9	72.0	1074.4	2061.0	2401.6	2364.7	667.1	38.6	22.8
75°	10.5	12.3	12.3	15.8	65.0	107.1	245.8	175.6	42.1	0.0	0.0
77.5°	3.5	3.5	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	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: P637768

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2552.6	2540.3	2494.7	2433.2	2373.5	2320.9	2266.4	2201.5	2154.1	2099.7	2082.1
5°	2837.0	2759.7	2635.1	2505.2	2385.8	2284.0	2185.7	2080.3	2003.1	1925.9	1899.5
7.5°	3077.5	2963.4	2761.5	2566.6	2403.4	2259.4	2117.2	1973.3	1860.9	1769.6	1741.5
10°	3293.4	3161.8	2891.4	2650.9	2445.5	2278.7	2106.7	1925.9	1780.1	1671.3	1645.0
12.5°	3479.5	3326.8	3002.0	2714.1	2463.1	2271.7	2104.9	1961.0	1829.3	1704.7	1671.3
15°	3635.8	3467.2	3095.1	2756.2	2436.7	2183.9	2038.2	2015.4	2004.9	1867.9	1803.0
17.5°	3788.5	3598.9	3170.6	2775.5	2363.0	2029.4	1924.1	2027.7	2138.3	2048.7	1966.2
20°	3948.3	3732.3	3247.8	2779.1	2240.1	1855.6	1838.1	2001.3	2141.8	2113.7	2036.5
22.5°	4136.1	3899.1	3344.4	2777.3	2085.6	1708.2	1774.9	1950.4	2064.5	2062.8	2001.3
25°	4408.2	4109.8	3474.3	2787.8	1917.1	1594.1	1704.7	1864.4	1957.5	1953.9	1903.0
27.5°	4699.6	4360.8	3642.8	2814.2	1773.1	1527.3	1622.1	1746.8	1827.5	1824.0	1780.1
30°	5108.7	4650.5	3804.3	2815.9	1669.5	1492.2	1530.9	1616.9	1694.1	1685.3	1652.0
32.5°	5605.5	4977.0	3939.5	2715.9	1604.6	1458.9	1436.1	1479.9	1539.6	1527.3	1518.6
35°	6205.9	5365.0	4055.4	2496.4	1504.5	1392.2	1330.7	1339.5	1381.6	1388.7	1385.1
37.5°	6890.6	5826.7	4199.3	2206.7	1369.3	1295.6	1213.1	1206.1	1230.7	1253.5	1271.0
40°	7566.5	6346.4	4394.2	1913.6	1246.5	1172.7	1093.7	1076.2	1086.7	1127.1	1163.9
42.5°	8326.6	6948.5	4604.8	1662.5	1162.2	1037.5	962.0	928.7	958.5	1023.5	1067.4
45°	9422.1	7793.0	4810.2	1462.4	1127.1	918.2	816.3	812.8	846.2	930.4	979.6
47.5°	10960.0	8884.9	4945.4	1306.1	1125.3	825.1	704.0	725.0	763.7	846.2	902.4
50°	12459.2	10252.5	4796.2	1186.8	1088.5	763.7	619.7	661.8	700.5	772.4	830.4
52.5°	13363.4	10988.1	4215.1	1074.4	974.3	735.6	537.2	610.9	618.0	682.9	744.4
55°	13268.6	10512.3	3228.5	900.6	805.8	695.2	451.2	551.2	554.8	603.9	656.6
57.5°	11516.5	9025.4	2217.3	730.3	605.7	574.1	372.2	465.2	498.6	528.4	567.0
60°	8583.0	6585.1	988.4	593.4	384.5	388.0	317.8	351.1	402.0	437.1	470.5
62.5°	5057.8	3788.5	402.0	356.4	212.4	244.0	256.3	256.3	287.9	314.2	335.3
65°	1911.8	1325.5	163.3	179.1	110.6	114.1	151.0	186.1	210.7	233.5	261.6
67.5°	335.3	231.7	84.3	66.7	65.0	57.9	77.2	121.1	135.2	152.7	165.0
70°	56.2	47.4	35.1	33.4	29.8	31.6	50.9	86.0	94.8	100.1	105.3
72.5°	15.8	14.0	10.5	8.8	7.0	8.8	31.6	66.7	70.2	73.7	79.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.3	47.4	50.9	52.7	57.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	14.0	17.6	14.0
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





REPORT NUMBER: P637768

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

**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2071.6	2036.5	2017.1	2006.6	2006.6	1992.6	1976.8	1971.5	1994.3	1994.3	2032.9
5°	1866.2	1838.1	1806.5	1787.2	1757.3	1762.6	1745.0	1743.3	1766.1	1776.6	1817.0
7.5°	1724.0	1688.9	1669.5	1657.3	1641.5	1634.4	1618.6	1613.4	1625.7	1643.2	1681.8
10°	1629.2	1623.9	1622.1	1630.9	1630.9	1622.1	1608.1	1599.3	1602.8	1636.2	1680.1
12.5°	1653.7	1664.3	1667.8	1681.8	1688.9	1681.8	1671.3	1674.8	1697.6	1759.1	1824.0
15°	1760.8	1752.1	1748.5	1755.6	1760.8	1753.8	1750.3	1776.6	1855.6	1943.4	2017.1
17.5°	1874.9	1818.8	1794.2	1794.2	1797.7	1794.2	1797.7	1848.6	1976.8	2064.5	2119.0
20°	1932.9	1829.3	1790.7	1781.9	1788.9	1790.7	1803.0	1860.9	2001.3	2062.8	2075.1
22.5°	1915.3	1785.4	1741.5	1734.5	1741.5	1748.5	1760.8	1810.0	1941.7	1973.3	1968.0
25°	1827.5	1699.4	1664.3	1664.3	1680.1	1678.3	1683.6	1718.7	1827.5	1846.9	1838.1
27.5°	1716.9	1595.8	1566.0	1583.5	1597.6	1594.1	1595.8	1625.7	1706.4	1711.7	1702.9
30°	1604.6	1499.3	1471.2	1492.2	1511.5	1508.0	1509.8	1539.6	1590.5	1585.3	1573.0
32.5°	1490.5	1413.2	1392.2	1404.5	1434.3	1430.8	1437.8	1469.4	1488.7	1465.9	1451.9
35°	1385.1	1344.8	1329.0	1336.0	1358.8	1364.1	1376.4	1397.4	1397.4	1369.3	1344.8
37.5°	1286.8	1281.6	1271.0	1262.3	1283.3	1299.1	1316.7	1341.3	1306.1	1265.8	1242.9
40°	1195.5	1218.4	1204.3	1181.5	1193.8	1216.6	1251.7	1271.0	1228.9	1188.5	1149.9
42.5°	1111.3	1149.9	1144.6	1116.5	1127.1	1148.1	1188.5	1204.3	1155.2	1109.5	1072.7
45°	1030.5	1084.9	1088.5	1053.3	1063.9	1084.9	1132.3	1137.6	1074.4	1025.2	998.9
47.5°	960.3	1020.0	1021.7	995.4	998.9	1028.8	1072.7	1074.4	1002.4	956.8	923.4
50°	893.6	962.0	967.3	944.5	948.0	983.1	1020.0	1013.0	935.7	888.3	858.5
52.5°	812.8	905.9	918.2	907.6	921.7	949.8	972.6	948.0	858.5	811.1	784.7
55°	725.0	846.2	872.5	865.5	881.3	904.1	909.4	893.6	781.2	733.8	709.2
57.5°	623.2	697.0	742.6	728.6	740.8	763.7	779.5	767.2	682.9	646.0	625.0
60°	516.1	565.3	575.8	553.0	542.5	582.8	619.7	603.9	531.9	509.1	484.5
62.5°	377.4	433.6	440.6	410.8	398.5	442.4	474.0	458.2	379.2	354.6	335.3
65°	302.0	354.6	368.7	340.6	333.6	366.9	386.2	347.6	291.4	265.1	244.0
67.5°	198.4	240.5	277.4	275.6	261.6	272.1	258.1	226.5	186.1	172.0	158.0
70°	122.9	147.5	170.3	179.1	177.3	173.8	154.5	131.7	119.4	114.1	107.1
72.5°	94.8	119.4	136.9	142.2	144.0	138.7	122.9	101.8	89.5	82.5	77.2
75°	70.2	89.5	103.6	110.6	114.1	110.6	94.8	80.8	68.5	63.2	57.9
77.5°	24.6	29.8	36.9	40.4	38.6	36.9	33.4	33.4	26.3	24.6	21.1
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



REPORT NUMBER: P637768  
 CATALOG NUMBER: GWS-SA4D-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3	2296.3
2.5°	2076.8	2108.4	2166.4	2219.0	2275.2	2333.1	2396.3	2461.3	2491.1	2487.6
5°	1878.5	1946.9	2041.7	2145.3	2261.2	2385.8	2524.5	2666.7	2728.1	2754.5
7.5°	1753.8	1850.4	1975.0	2106.7	2259.4	2436.7	2645.6	2868.6	2958.1	2988.0
10°	1769.6	1882.0	1985.5	2113.7	2277.0	2506.9	2766.8	3031.9	3137.2	3170.6
12.5°	1897.8	1922.3	1950.4	2055.8	2261.2	2559.6	2877.4	3193.4	3314.5	3347.9
15°	2013.6	1899.5	1846.9	1943.4	2205.0	2596.5	2989.7	3367.2	3500.6	3539.2
17.5°	2018.9	1846.9	1729.2	1804.7	2113.7	2612.3	3100.3	3544.5	3690.2	3727.1
20°	1953.9	1788.9	1637.9	1639.7	1989.1	2608.8	3191.6	3704.2	3867.5	3900.9
22.5°	1859.1	1720.5	1564.2	1509.8	1855.6	2601.7	3291.7	3874.5	4051.8	4083.4
25°	1753.8	1632.7	1494.0	1411.5	1722.2	2608.8	3432.1	4097.5	4292.4	4322.2
27.5°	1639.7	1536.1	1439.6	1372.9	1609.9	2635.1	3600.7	4381.9	4613.6	4645.2
30°	1520.3	1443.1	1404.5	1364.1	1539.6	2642.1	3783.2	4713.7	5006.9	5050.8
32.5°	1402.7	1360.6	1362.3	1369.3	1472.9	2593.0	3950.0	5082.4	5473.9	5544.1
35°	1293.9	1281.6	1316.7	1351.8	1376.4	2466.6	4095.7	5517.7	6051.4	6123.4
37.5°	1200.8	1211.3	1255.2	1290.3	1271.0	2287.5	4288.8	6062.0	6697.5	6758.9
40°	1111.3	1137.6	1188.5	1204.3	1190.3	2078.6	4520.6	6586.9	7257.5	7341.8
42.5°	1028.8	1048.1	1120.1	1123.6	1167.5	1866.2	4743.5	7152.2	7901.8	7945.7
45°	962.0	958.5	1032.3	1055.1	1197.3	1630.9	4961.2	7905.3	8744.5	8807.7
47.5°	897.1	893.6	911.1	1014.7	1209.6	1413.2	5177.2	9007.8	9966.3	10075.2
50°	835.6	840.9	786.5	995.4	1142.9	1246.5	5275.5	10027.8	11077.6	11123.3
52.5°	781.2	761.9	667.1	932.2	1000.7	1088.5	4996.3	10491.3	11765.8	11895.7
55°	704.0	596.9	549.5	756.6	790.0	949.8	4092.2	10222.7	11825.5	12055.5
57.5°	602.2	468.7	467.0	558.3	558.3	881.3	2621.1	8733.9	10191.1	10594.8
60°	463.5	363.4	386.2	388.0	358.1	642.5	1471.2	6327.1	7534.9	7936.9
62.5°	330.0	277.4	291.4	231.7	205.4	321.3	705.7	3642.8	4650.5	4706.7
65°	221.2	187.8	152.7	128.2	126.4	136.9	291.4	1316.7	1601.1	1806.5
67.5°	145.7	114.1	80.8	80.8	91.3	91.3	110.6	217.7	305.5	279.1
70°	94.8	79.0	50.9	49.2	59.7	59.7	56.2	59.7	63.2	63.2
72.5°	70.2	59.7	29.8	26.3	33.4	35.1	31.6	29.8	29.8	29.8
75°	52.7	42.1	17.6	12.3	15.8	21.1	17.6	12.3	12.3	10.5
77.5°	21.1	15.8	7.0	5.3	8.8	12.3	10.5	5.3	3.5	3.5
80°	1.8	3.5	3.5	3.5	5.3	7.0	8.8	3.5	1.8	1.8
82.5°	0.0	1.8	1.8	1.8	3.5	5.3	7.0	3.5	1.8	1.8
85°	0.0	0.0	0.0	0.0	3.5	5.3	3.5	1.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.8	5.3	3.5	1.8	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)