

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: P640243

Luminaire Tested: GWS-SA5D-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640243  
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-SA5D-740-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

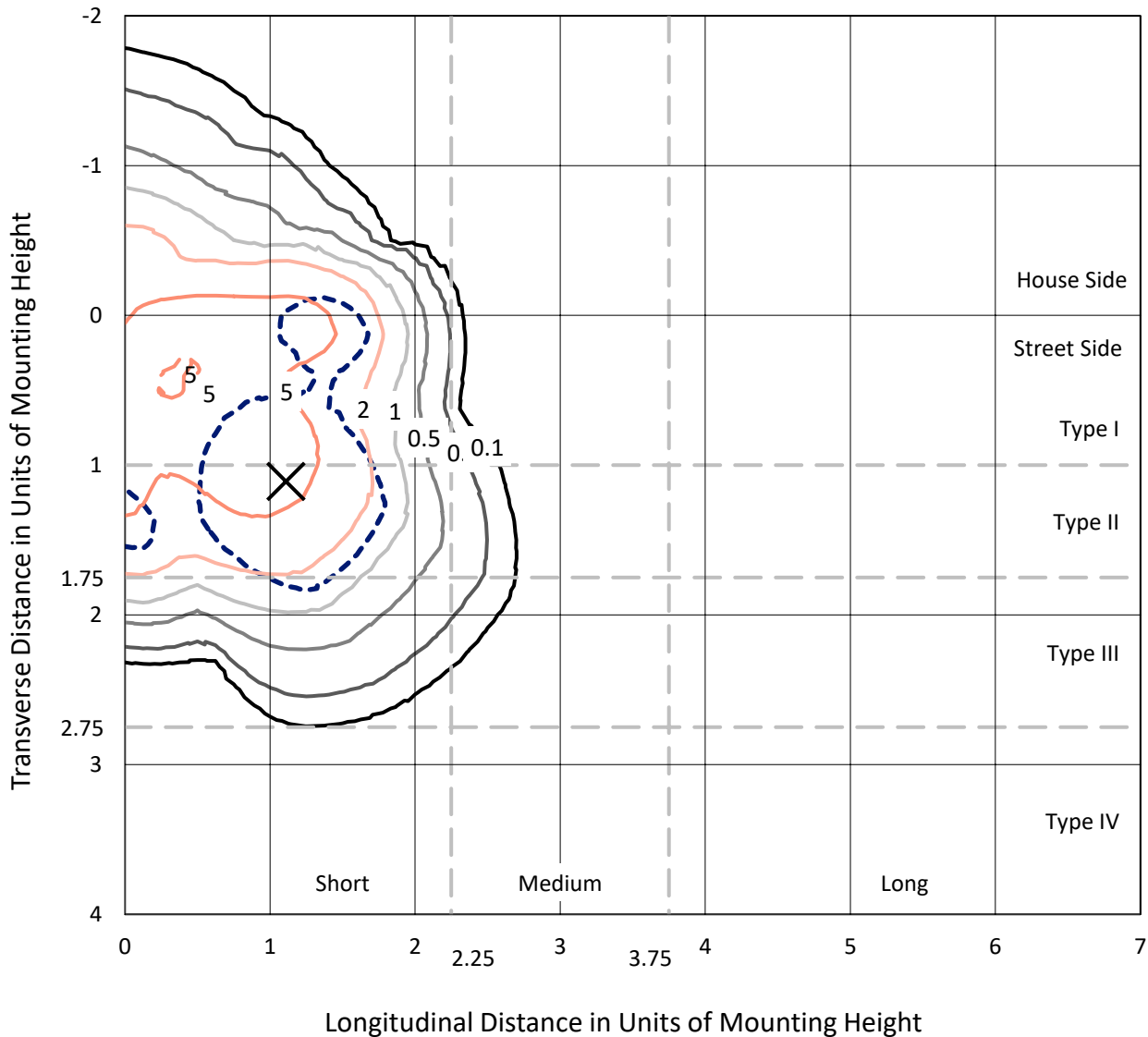
Lumens per Lamp: N/A  
Luminaire Lumens: 16026.7 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

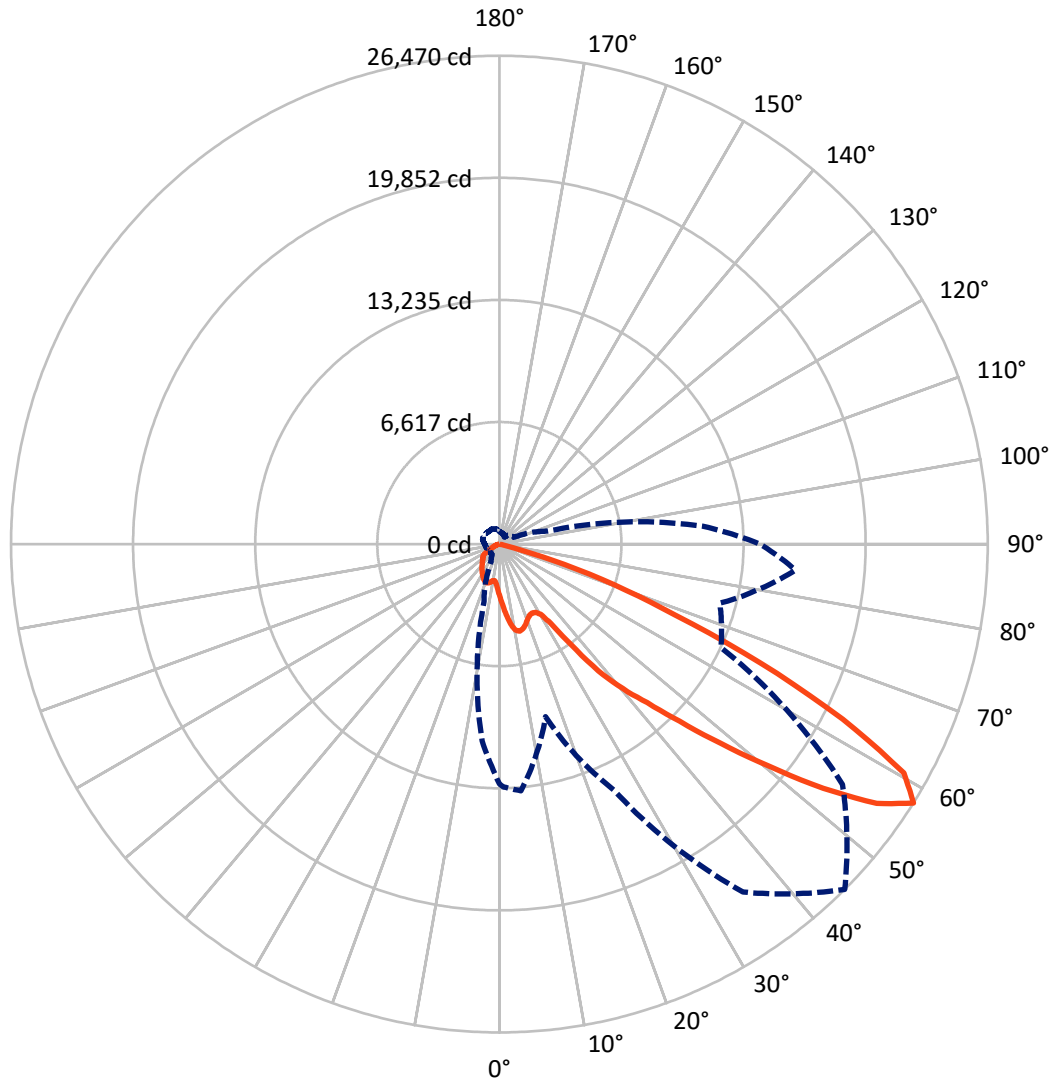
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3588.8	0.0	3588.8
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	12437.9	0.0	12437.9
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	16026.7	0.0	16026.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.1	1.7
10°-20°	896.4	5.6
20°-30°	1456.2	9.1
30°-40°	2250.1	14.0
40°-50°	3608.0	22.5
50°-60°	4931.2	30.8
60°-70°	2388.3	14.9
70°-80°	218.7	1.4
80°-90°	0.6	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°	16026.7	100.0
0°-180°	16026.7	100.0

**Coefficient of Utilization**



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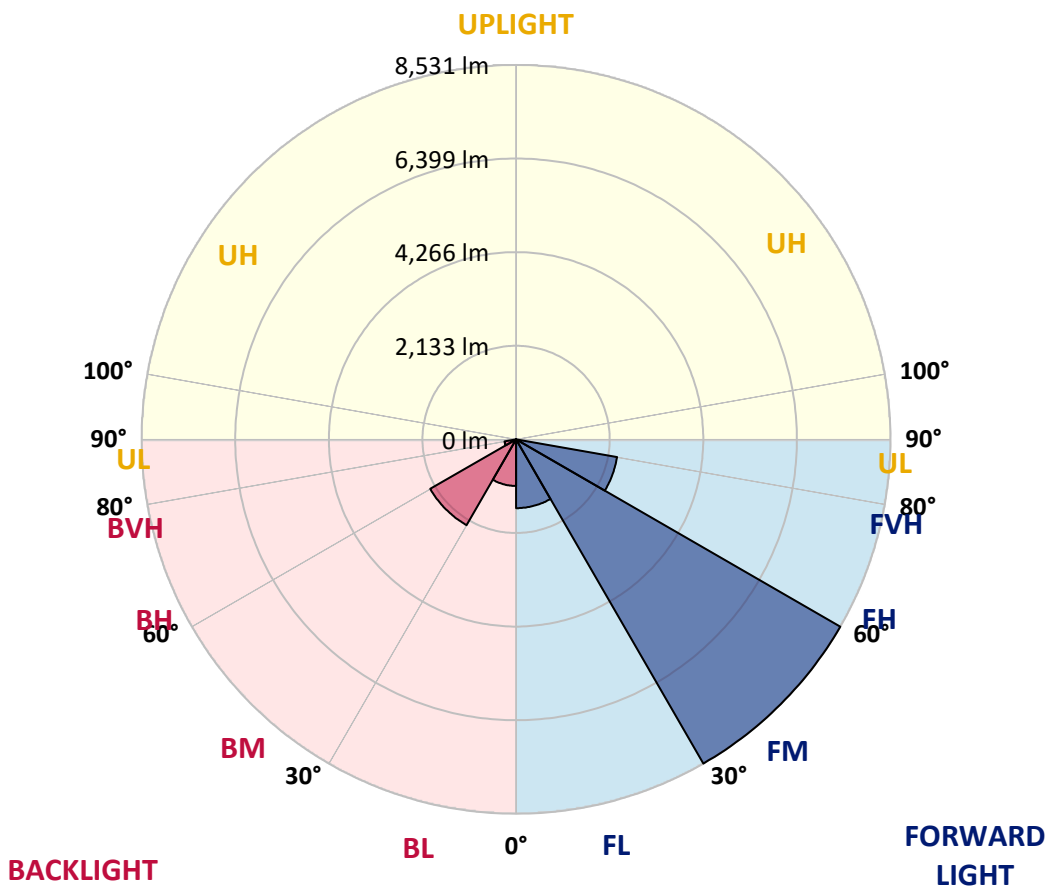
CATALOG NUMBER: GWS-SA5D-740-U-SLR-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1567.9	9.8			
FM (30°-60°)	8531.4	53.2			
FH (60°-80°)	2338.0	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1061.9	6.6	B3/2500		
BM (30°-60°)	2257.9	14.1	B2/2500		
BH (60°-80°)	269.0	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: B3-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	3051.6	3071.0	3103.3	3172.2	3230.3	3269.1	3286.3	3282.0	3258.3	3241.1	3206.7
5°	3378.9	3378.9	3441.4	3598.6	3719.2	3794.6	3833.3	3809.7	3762.3	3686.9	3570.6
7.5°	3665.4	3676.1	3781.7	4005.6	4188.7	4296.4	4358.8	4345.9	4261.9	4117.6	3885.0
10°	3889.3	3902.3	4042.2	4315.7	4531.1	4640.9	4733.5	4742.2	4649.5	4457.9	4190.8
12.5°	4106.9	4119.8	4266.2	4528.9	4718.5	4763.7	4845.5	4877.8	4854.1	4718.5	4440.7
15°	4341.6	4371.7	4496.6	4692.6	4772.3	4718.5	4772.3	4830.4	4910.1	4897.2	4647.4
17.5°	4572.0	4593.6	4720.6	4789.5	4701.2	4561.3	4587.1	4656.0	4836.9	5013.5	4852.0
20°	4785.2	4815.4	4920.9	4830.4	4563.4	4345.9	4348.1	4438.5	4714.2	5084.6	5060.9
22.5°	5009.2	5054.4	5129.8	4875.7	4436.3	4175.8	4186.5	4268.4	4617.2	5151.3	5297.8
25°	5302.1	5345.2	5394.7	4987.7	4395.4	4091.8	4132.7	4208.1	4617.2	5265.5	5590.7
27.5°	5698.3	5728.5	5730.6	5196.6	4466.5	4104.7	4190.8	4277.0	4755.1	5493.7	5982.6
30°	6195.8	6243.2	6180.7	5521.7	4688.3	4277.0	4404.0	4511.7	5052.3	5879.2	6559.8
32.5°	6801.0	6867.7	6783.7	6004.1	5151.3	4871.4	5101.8	5164.3	5526.1	6437.0	7214.4
35°	7511.6	7567.6	7477.2	6671.7	6232.4	6284.1	6701.9	6622.2	6477.9	7124.0	7979.0
37.5°	8291.2	8342.9	8168.5	7683.9	7830.4	8054.3	8721.9	8448.4	7983.3	8009.1	8808.1
40°	9006.2	9062.2	8788.7	8784.4	9085.9	9495.1	10300.5	9923.6	9290.5	9167.7	9585.5
42.5°	9747.0	9785.8	9538.1	9370.2	10055.0	10897.0	11749.9	11241.6	10156.2	10022.7	10558.9
45°	10804.4	10886.3	10444.8	9658.7	10927.2	12510.1	13698.8	12706.0	10746.3	10638.6	12049.2
47.5°	12359.3	12419.6	11519.4	9839.6	11739.1	14519.3	16134.5	14605.5	11265.3	11019.8	14086.5
50°	13645.0	13685.9	12507.9	10037.8	12602.7	16685.8	18910.5	16858.1	11848.9	11650.8	15988.1
52.5°	14592.6	14747.6	13806.5	10444.8	13737.6	19233.5	21983.6	19526.4	12759.9	12869.7	17564.5
55°	14788.5	14999.6	14693.8	10694.6	14736.9	21828.5	24822.0	21914.7	13668.7	13793.6	18094.3
57.5°	12996.8	13164.8	13418.9	9686.7	14713.2	23017.3	26469.5	22707.2	13255.2	12370.1	16110.8
60°	9736.3	9852.6	10313.4	7404.0	13530.9	21966.4	25186.0	21359.1	11590.5	9439.1	12275.3
62.5°	5773.7	5825.4	6409.0	4796.0	11230.8	18916.9	20887.4	18430.2	9159.1	6348.7	7518.1
65°	2216.0	2194.5	2640.3	2366.8	8258.9	15068.5	15535.8	14049.9	6284.1	2909.5	2866.4
67.5°	342.4	327.3	441.5	699.9	5956.8	10442.6	10251.0	10126.1	3936.7	678.4	592.2
70°	77.5	77.5	94.8	206.7	3639.5	6135.5	6566.2	6260.4	2519.7	144.3	77.5
72.5°	36.6	36.6	45.2	88.3	1318.0	2528.3	2946.1	2900.9	818.4	47.4	28.0
75°	12.9	15.1	15.1	19.4	79.7	131.4	301.5	215.4	51.7	0.0	0.0
77.5°	4.3	4.3	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	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°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	3131.3	3116.2	3060.2	2984.8	2911.6	2847.0	2780.3	2700.6	2642.4	2575.7	2554.1
5°	3480.2	3385.4	3232.5	3073.1	2926.7	2801.8	2681.2	2552.0	2457.2	2362.5	2330.2
7.5°	3775.2	3635.2	3387.6	3148.5	2948.2	2771.6	2597.2	2420.6	2282.8	2170.8	2136.3
10°	4040.1	3878.6	3546.9	3251.9	2999.9	2795.3	2584.3	2362.5	2183.7	2050.2	2017.9
12.5°	4268.4	4081.0	3682.6	3329.4	3021.5	2786.7	2582.1	2405.5	2244.0	2091.1	2050.2
15°	4460.0	4253.3	3796.7	3381.1	2989.1	2679.0	2500.3	2472.3	2459.4	2291.4	2211.7
17.5°	4647.4	4414.8	3889.3	3404.8	2898.7	2489.5	2360.3	2487.4	2623.0	2513.2	2412.0
20°	4843.4	4578.5	3984.1	3409.1	2748.0	2276.3	2254.8	2455.1	2627.4	2592.9	2498.1
22.5°	5073.8	4783.1	4102.5	3406.9	2558.4	2095.4	2177.3	2392.6	2532.6	2530.4	2455.1
25°	5407.6	5041.5	4261.9	3419.9	2351.7	1955.4	2091.1	2287.1	2401.2	2396.9	2334.5
27.5°	5765.1	5349.5	4468.6	3452.2	2175.1	1873.6	1989.9	2142.8	2241.9	2237.6	2183.7
30°	6266.9	5704.8	4666.8	3454.3	2048.0	1830.5	1877.9	1983.4	2078.2	2067.4	2026.5
32.5°	6876.3	6105.4	4832.6	3331.6	1968.4	1789.6	1761.6	1815.5	1888.7	1873.6	1862.8
35°	7612.9	6581.3	4974.7	3062.4	1845.6	1707.8	1632.4	1643.2	1694.9	1703.5	1699.2
37.5°	8452.7	7147.7	5151.3	2707.0	1679.8	1589.3	1488.1	1479.5	1509.6	1537.6	1559.2
40°	9281.9	7785.1	5390.4	2347.4	1529.0	1438.6	1341.7	1320.1	1333.1	1382.6	1427.8
42.5°	10214.4	8523.8	5648.8	2039.4	1425.7	1272.8	1180.2	1139.2	1175.8	1255.5	1309.4
45°	11558.2	9559.7	5900.8	1793.9	1382.6	1126.3	1001.4	997.1	1038.0	1141.4	1201.7
47.5°	13444.7	10899.2	6066.6	1602.3	1380.4	1012.2	863.6	889.4	936.8	1038.0	1106.9
50°	15283.9	12576.8	5883.5	1455.8	1335.2	936.8	760.2	811.9	859.3	947.6	1018.6
52.5°	16392.9	13479.2	5170.7	1318.0	1195.2	902.3	659.0	749.4	758.1	837.7	913.1
55°	16276.7	12895.6	3960.4	1104.8	988.5	852.8	553.5	676.2	680.5	740.8	805.4
57.5°	14127.4	11071.5	2720.0	895.9	743.0	704.2	456.6	570.7	611.6	648.2	695.6
60°	10528.8	8078.0	1212.5	727.9	471.6	475.9	389.8	430.7	493.2	536.2	577.2
62.5°	6204.4	4647.4	493.2	437.2	260.6	299.3	314.4	314.4	353.2	385.5	411.3
65°	2345.2	1625.9	200.3	219.7	135.7	140.0	185.2	228.3	258.4	286.4	320.9
67.5°	411.3	284.3	103.4	81.8	79.7	71.1	94.8	148.6	165.8	187.4	202.4
70°	68.9	58.1	43.1	40.9	36.6	38.8	62.5	105.5	116.3	122.8	129.2
72.5°	19.4	17.2	12.9	10.8	8.6	10.8	38.8	81.8	86.1	90.4	96.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.1	58.1	62.5	64.6	71.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	17.2	21.5	17.2
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°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2541.2	2498.1	2474.4	2461.5	2461.5	2444.3	2424.9	2418.5	2446.5	2446.5	2493.8
5°	2289.2	2254.8	2216.0	2192.3	2155.7	2162.2	2140.6	2138.5	2166.5	2179.4	2228.9
7.5°	2114.8	2071.7	2048.0	2033.0	2013.6	2005.0	1985.6	1979.1	1994.2	2015.7	2063.1
10°	1998.5	1992.0	1989.9	2000.7	2000.7	1989.9	1972.7	1961.9	1966.2	2007.1	2061.0
12.5°	2028.7	2041.6	2045.9	2063.1	2071.7	2063.1	2050.2	2054.5	2082.5	2157.9	2237.6
15°	2160.0	2149.3	2145.0	2153.6	2160.0	2151.4	2147.1	2179.4	2276.3	2384.0	2474.4
17.5°	2300.0	2231.1	2200.9	2200.9	2205.3	2200.9	2205.3	2267.7	2424.9	2532.6	2599.4
20°	2371.1	2244.0	2196.6	2185.9	2194.5	2196.6	2211.7	2282.8	2455.1	2530.4	2545.5
22.5°	2349.5	2190.2	2136.3	2127.7	2136.3	2145.0	2160.0	2220.3	2381.8	2420.6	2414.1
25°	2241.9	2084.7	2041.6	2041.6	2061.0	2058.8	2065.3	2108.3	2241.9	2265.6	2254.8
27.5°	2106.2	1957.6	1921.0	1942.5	1959.7	1955.4	1957.6	1994.2	2093.3	2099.7	2089.0
30°	1968.4	1839.1	1804.7	1830.5	1854.2	1849.9	1852.1	1888.7	1951.1	1944.7	1929.6
32.5°	1828.4	1733.6	1707.8	1722.9	1759.5	1755.2	1763.8	1802.5	1826.2	1798.2	1781.0
35°	1699.2	1649.6	1630.2	1638.9	1666.9	1673.3	1688.4	1714.2	1714.2	1679.8	1649.6
37.5°	1578.6	1572.1	1559.2	1548.4	1574.3	1593.6	1615.2	1645.3	1602.3	1552.7	1524.7
40°	1466.6	1494.6	1477.3	1449.4	1464.4	1492.4	1535.5	1559.2	1507.5	1458.0	1410.6
42.5°	1363.2	1410.6	1404.1	1369.7	1382.6	1408.4	1458.0	1477.3	1417.0	1361.1	1315.8
45°	1264.1	1330.9	1335.2	1292.1	1305.1	1330.9	1389.1	1395.5	1318.0	1257.7	1225.4
47.5°	1178.0	1251.2	1253.4	1221.1	1225.4	1262.0	1315.8	1318.0	1229.7	1173.7	1132.8
50°	1096.2	1180.2	1186.6	1158.6	1162.9	1206.0	1251.2	1242.6	1147.9	1089.7	1053.1
52.5°	997.1	1111.2	1126.3	1113.4	1130.6	1165.1	1193.1	1162.9	1053.1	994.9	962.6
55°	889.4	1038.0	1070.3	1061.7	1081.1	1109.1	1115.5	1096.2	958.3	900.2	870.0
57.5°	764.5	855.0	911.0	893.7	908.8	936.8	956.2	941.1	837.7	792.5	766.7
60°	633.1	693.4	706.4	678.4	665.5	715.0	760.2	740.8	652.5	624.5	594.4
62.5°	463.0	531.9	540.5	503.9	488.9	542.7	581.5	562.1	465.2	435.0	411.3
65°	370.4	435.0	452.2	417.8	409.2	450.1	473.8	426.4	357.5	325.2	299.3
67.5°	243.4	295.0	340.3	338.1	320.9	333.8	316.6	277.8	228.3	211.0	193.8
70°	150.7	180.9	208.9	219.7	217.5	213.2	189.5	161.5	146.4	140.0	131.4
72.5°	116.3	146.4	168.0	174.4	176.6	170.1	150.7	124.9	109.8	101.2	94.8
75°	86.1	109.8	127.1	135.7	140.0	135.7	116.3	99.1	84.0	77.5	71.1
77.5°	30.1	36.6	45.2	49.5	47.4	45.2	40.9	40.9	32.3	30.1	25.8
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



REPORT NUMBER: P640243

CATALOG NUMBER: GWS-SA5D-740-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9	2816.9
2.5°	2547.7	2586.4	2657.5	2722.1	2791.0	2862.1	2939.6	3019.3	3055.9	3051.6
5°	2304.3	2388.3	2504.6	2631.7	2773.8	2926.7	3096.8	3271.3	3346.6	3378.9
7.5°	2151.4	2269.9	2422.8	2584.3	2771.6	2989.1	3245.4	3518.9	3628.8	3665.4
10°	2170.8	2308.6	2435.7	2592.9	2793.2	3075.3	3394.0	3719.2	3848.4	3889.3
12.5°	2328.0	2358.2	2392.6	2521.8	2773.8	3139.9	3529.7	3917.3	4065.9	4106.9
15°	2470.1	2330.2	2265.6	2384.0	2704.9	3185.1	3667.5	4130.5	4294.2	4341.6
17.5°	2476.6	2265.6	2121.3	2213.9	2592.9	3204.5	3803.2	4348.1	4526.8	4572.0
20°	2396.9	2194.5	2009.3	2011.4	2440.0	3200.2	3915.2	4544.0	4744.3	4785.2
22.5°	2280.6	2110.5	1918.8	1852.1	2276.3	3191.6	4037.9	4752.9	4970.4	5009.2
25°	2151.4	2002.8	1832.7	1731.5	2112.6	3200.2	4210.2	5026.4	5265.5	5302.1
27.5°	2011.4	1884.4	1765.9	1684.1	1974.8	3232.5	4417.0	5375.3	5659.6	5698.3
30°	1865.0	1770.2	1722.9	1673.3	1888.7	3241.1	4640.9	5782.3	6142.0	6195.8
32.5°	1720.7	1669.0	1671.2	1679.8	1806.8	3180.8	4845.5	6234.6	6714.8	6801.0
35°	1587.2	1572.1	1615.2	1658.2	1688.4	3025.8	5024.3	6768.7	7423.3	7511.6
37.5°	1473.0	1486.0	1539.8	1582.9	1559.2	2806.1	5261.2	7436.3	8215.9	8291.2
40°	1363.2	1395.5	1458.0	1477.3	1460.1	2549.8	5545.4	8080.2	8902.8	9006.2
42.5°	1262.0	1285.7	1374.0	1378.3	1432.1	2289.2	5818.9	8773.6	9693.2	9747.0
45°	1180.2	1175.8	1266.3	1294.3	1468.7	2000.7	6086.0	9697.5	10726.9	10804.4
47.5°	1100.5	1096.2	1117.7	1244.8	1483.8	1733.6	6350.9	11049.9	12225.8	12359.3
50°	1025.1	1031.6	964.8	1221.1	1402.0	1529.0	6471.5	12301.2	13589.0	13645.0
52.5°	958.3	934.6	818.4	1143.5	1227.5	1335.2	6129.0	12869.7	14433.2	14592.6
55°	863.6	732.2	674.1	928.2	969.1	1165.1	5020.0	12540.2	14506.4	14788.5
57.5°	738.7	575.0	572.8	684.8	684.8	1081.1	3215.3	10714.0	12501.5	12996.8
60°	568.5	445.8	473.8	475.9	439.3	788.2	1804.7	7761.5	9243.1	9736.3
62.5°	404.9	340.3	357.5	284.3	252.0	394.1	865.7	4468.6	5704.8	5773.7
65°	271.3	230.4	187.4	157.2	155.1	168.0	357.5	1615.2	1964.1	2216.0
67.5°	178.7	140.0	99.1	99.1	112.0	112.0	135.7	267.0	374.7	342.4
70°	116.3	96.9	62.5	60.3	73.2	73.2	68.9	73.2	77.5	77.5
72.5°	86.1	73.2	36.6	32.3	40.9	43.1	38.8	36.6	36.6	36.6
75°	64.6	51.7	21.5	15.1	19.4	25.8	21.5	15.1	15.1	12.9
77.5°	25.8	19.4	8.6	6.5	10.8	15.1	12.9	6.5	4.3	4.3
80°	2.2	4.3	4.3	4.3	6.5	8.6	10.8	4.3	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.3	6.5	8.6	4.3	2.2	2.2
85°	0.0	0.0	0.0	0.0	4.3	6.5	4.3	2.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.5	4.3	2.2	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)