

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: P640294

Luminaire Tested: GWS-SA5D-750-U-SLL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640294  
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-SA5D-750-U-SLL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

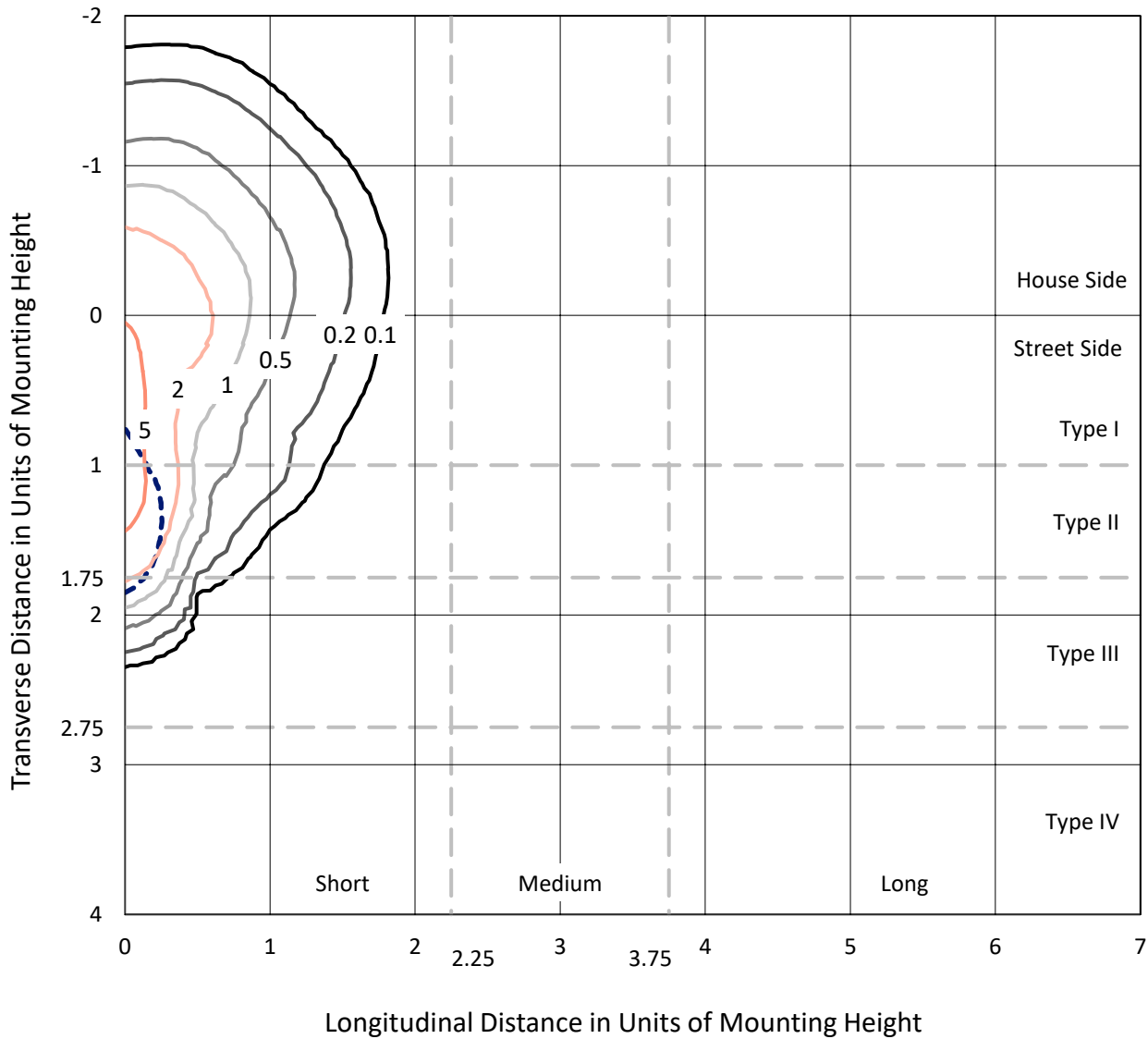
Lumens per Lamp: N/A  
Luminaire Lumens: 16477.7 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

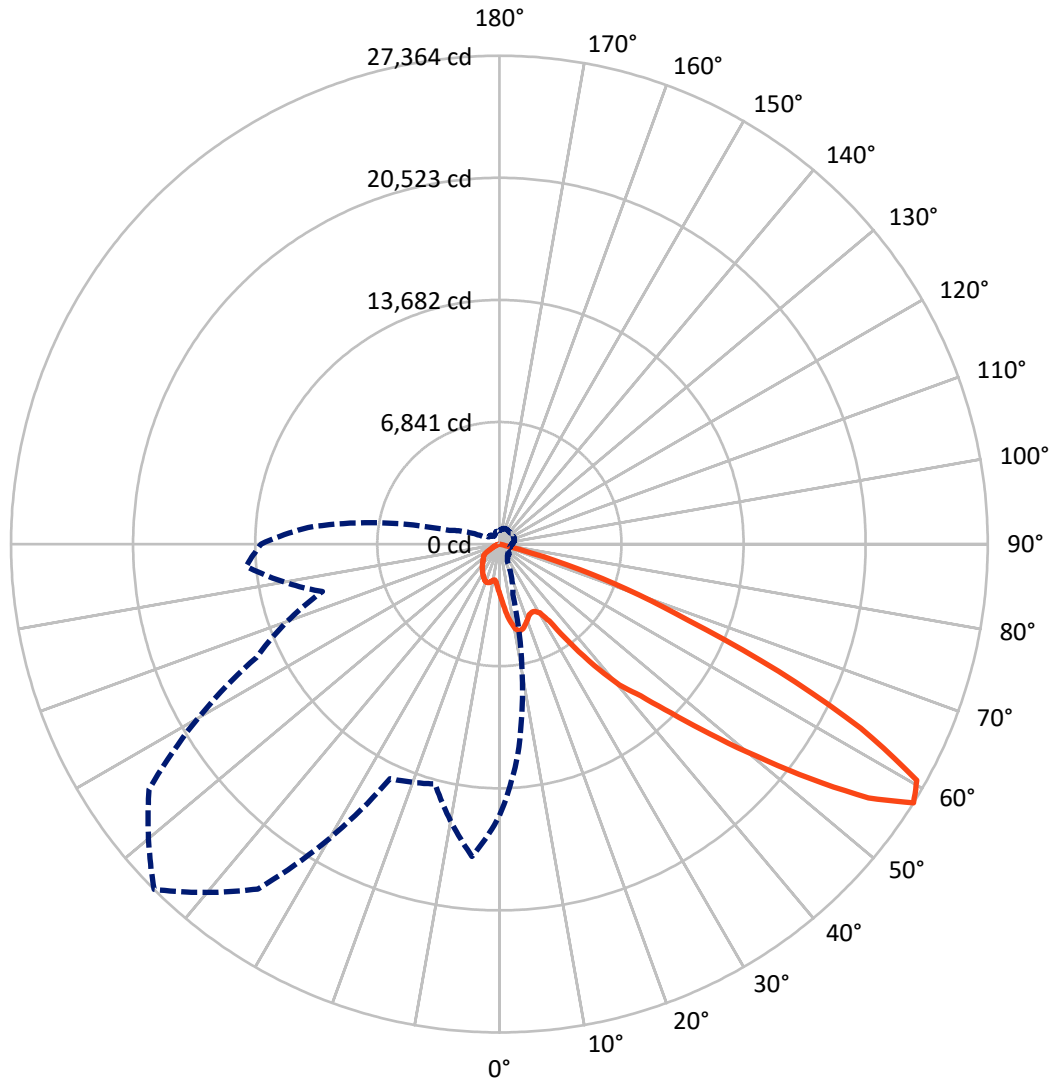
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3549.8	0.0	3549.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	12927.9	0.0	12927.9
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	16477.7	0.0	16477.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.7	1.7
10°-20°	910.6	5.5
20°-30°	1477.8	9.0
30°-40°	2268.0	13.8
40°-50°	3622.2	22.0
50°-60°	5071.7	30.8
60°-70°	2600.4	15.8
70°-80°	250.4	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°	16477.7	100.0
0°-180°	16477.7	100.0

**Coefficient of Utilization**



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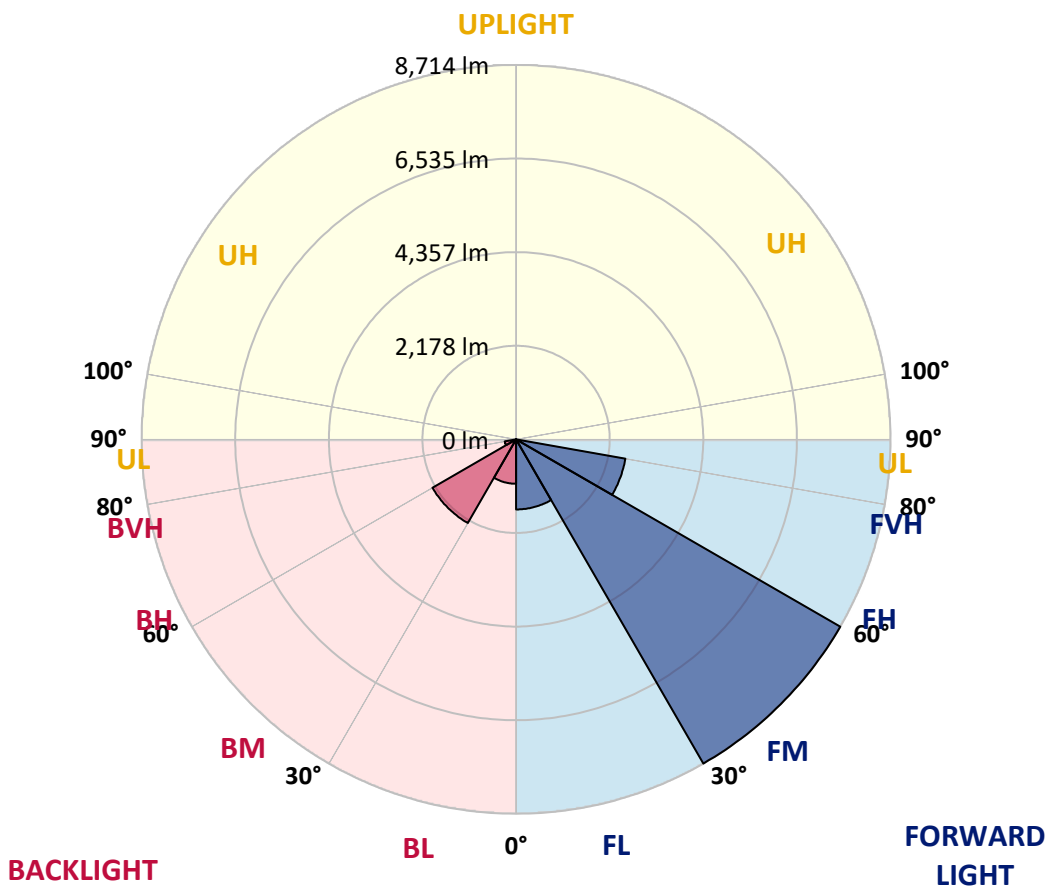
CATALOG NUMBER: GWS-SA5D-750-U-SLL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.4	9.9			
FM (30°-60°)	8713.8	52.9			
FH (60°-80°)	2582.7	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1033.7	6.3	B3/2500		
BM (30°-60°)	2248.1	13.6	B2/2500		
BH (60°-80°)	268.1	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: 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°	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8
2.5°	3110.4	3103.8	3081.8	3006.9	2960.6	2887.9	2835.1	2766.8	2691.9	2645.6	2599.3
5°	3440.8	3423.2	3363.7	3191.9	3059.7	2916.6	2802.0	2676.4	2542.1	2454.0	2372.5
7.5°	3758.0	3731.6	3652.3	3361.5	3161.1	2956.2	2793.2	2610.4	2420.9	2288.7	2187.4
10°	4068.6	4009.2	3883.6	3526.7	3255.8	3009.1	2817.4	2608.2	2385.7	2218.3	2105.9
12.5°	4324.2	4280.1	4108.3	3683.1	3335.1	3020.1	2784.4	2590.5	2440.7	2328.4	2224.9
15°	4544.5	4496.0	4333.0	3824.1	3403.4	2976.0	2645.6	2476.0	2500.2	2544.3	2456.2
17.5°	4747.1	4696.4	4520.2	3940.9	3429.8	2868.1	2451.8	2370.3	2504.6	2669.8	2636.8
20°	4956.4	4899.1	4683.2	4035.6	3421.0	2698.5	2255.7	2279.9	2469.4	2658.8	2676.4
22.5°	5200.9	5141.4	4890.3	4156.8	3414.4	2495.8	2086.1	2200.6	2403.3	2564.1	2594.9
25°	5524.7	5454.2	5178.9	4335.2	3432.0	2310.8	1964.9	2123.5	2291.0	2436.3	2454.0
27.5°	5952.1	5861.7	5511.5	4555.5	3469.5	2165.4	1912.1	2017.8	2147.8	2277.7	2293.2
30°	6509.4	6394.8	5892.6	4747.1	3451.8	2064.1	1876.8	1912.1	1989.2	2094.9	2097.1
32.5°	7161.4	7005.0	6319.9	4912.3	3299.8	1989.2	1828.4	1804.1	1821.7	1903.3	1918.7
35°	7928.0	7725.3	6791.3	5068.7	3022.3	1843.8	1740.2	1658.7	1652.1	1691.8	1729.2
37.5°	8806.9	8564.6	7386.1	5269.2	2694.1	1691.8	1610.3	1528.8	1493.5	1513.3	1570.6
40°	9617.6	9348.8	8007.3	5511.5	2359.2	1555.2	1458.3	1374.6	1332.7	1339.3	1409.8
42.5°	10569.2	10291.7	8767.3	5828.7	2081.7	1462.7	1299.7	1213.8	1158.7	1189.5	1271.0
45°	12014.3	11699.3	9875.3	6104.1	1861.4	1440.7	1160.9	1039.7	1013.3	1066.2	1163.1
47.5°	13988.0	13602.5	11397.5	6271.5	1674.2	1460.5	1064.0	898.8	905.4	964.8	1061.8
50°	15946.3	15530.0	13157.5	6051.2	1520.0	1420.8	1015.5	788.6	830.5	883.3	971.5
52.5°	17292.3	16750.4	14014.4	5414.6	1379.0	1271.0	1011.1	685.1	764.4	782.0	856.9
55°	17345.1	16677.7	13576.1	4269.1	1187.3	1072.8	964.8	599.2	691.7	698.3	762.2
57.5°	15204.0	14600.4	11864.5	2932.0	1055.2	786.4	768.8	524.3	568.3	623.4	663.1
60°	11567.1	11053.8	8873.0	1343.7	801.8	500.0	526.5	451.6	425.1	506.7	546.3
62.5°	7084.3	6756.1	5322.1	594.8	511.1	266.5	319.4	359.1	319.4	350.3	383.3
65°	2813.0	2667.6	2020.0	253.3	209.3	134.4	145.4	209.3	224.7	246.7	277.6
67.5°	489.0	462.6	339.2	112.3	85.9	81.5	70.5	96.9	136.6	152.0	176.2
70°	63.9	61.7	55.1	46.3	44.1	39.7	30.8	61.7	92.5	96.9	112.3
72.5°	15.4	13.2	13.2	11.0	13.2	4.4	4.4	33.0	66.1	68.3	79.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	41.9	46.3	55.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8
2.5°	2561.9	2517.8	2502.4	2480.4	2451.8	2460.6	2420.9	2407.7	2427.5	2454.0	2447.4
5°	2328.4	2279.9	2246.9	2196.2	2187.4	2167.6	2154.4	2136.8	2158.8	2189.6	2196.2
7.5°	2143.4	2101.5	2068.5	2053.0	2042.0	2033.2	2006.8	1993.6	1993.6	2006.8	2017.8
10°	2064.1	2033.2	2026.6	2031.0	2048.6	2046.4	2022.2	2004.6	1982.6	1971.5	1984.8
12.5°	2174.2	2123.5	2114.7	2116.9	2139.0	2136.8	2110.3	2088.3	2083.9	2088.3	2130.1
15°	2361.4	2284.3	2227.1	2216.1	2227.1	2222.7	2202.8	2189.6	2196.2	2260.1	2330.6
17.5°	2528.9	2409.9	2306.4	2266.7	2264.5	2257.9	2238.1	2233.7	2266.7	2385.7	2489.2
20°	2577.3	2460.6	2313.0	2262.3	2251.3	2244.7	2222.7	2229.3	2271.1	2414.3	2502.4
22.5°	2513.4	2401.1	2246.9	2196.2	2187.4	2185.2	2163.2	2172.0	2207.2	2332.8	2405.5
25°	2392.3	2297.6	2136.8	2092.7	2092.7	2088.3	2068.5	2072.9	2094.9	2205.0	2275.5
27.5°	2244.7	2154.4	2020.0	1975.9	1982.6	1989.2	1964.9	1958.3	1975.9	2079.5	2121.3
30°	2075.1	2011.2	1905.5	1865.8	1863.6	1890.0	1857.0	1848.2	1872.4	1953.9	1962.7
32.5°	1909.9	1879.0	1804.1	1773.3	1775.5	1779.9	1762.3	1762.3	1784.3	1828.4	1826.2
35°	1749.1	1729.2	1716.0	1694.0	1691.8	1683.0	1683.0	1687.4	1711.6	1727.0	1698.4
37.5°	1594.9	1614.7	1630.1	1608.1	1590.4	1590.4	1590.4	1610.3	1632.3	1625.7	1577.2
40°	1458.3	1500.1	1548.6	1524.4	1482.5	1480.3	1489.1	1522.2	1555.2	1515.6	1471.5
42.5°	1341.5	1394.4	1462.7	1449.5	1403.2	1396.6	1403.2	1445.1	1471.5	1420.8	1372.4
45°	1227.0	1293.1	1374.6	1374.6	1323.9	1317.3	1319.5	1374.6	1390.0	1330.5	1268.8
47.5°	1130.1	1202.7	1288.7	1288.7	1246.8	1233.6	1244.6	1301.9	1312.9	1229.2	1171.9
50°	1037.5	1116.8	1211.6	1205.0	1176.3	1165.3	1185.1	1246.8	1233.6	1141.1	1081.6
52.5°	920.8	1004.5	1134.5	1141.1	1125.6	1127.9	1152.1	1191.7	1154.3	1041.9	991.3
55°	815.0	901.0	1030.9	1066.2	1066.2	1064.0	1075.0	1105.8	1075.0	940.6	878.9
57.5°	700.5	773.2	881.1	889.9	896.6	872.3	887.7	929.6	914.2	799.6	764.4
60°	574.9	636.6	698.3	704.9	676.3	625.6	654.2	702.7	713.7	627.8	588.2
62.5°	407.5	467.0	539.7	539.7	511.1	460.4	497.8	539.7	524.3	436.2	411.9
65°	304.0	359.1	414.1	438.4	414.1	378.9	407.5	438.4	414.1	341.4	306.2
67.5°	196.1	233.5	266.5	286.4	290.8	286.4	299.6	290.8	262.1	213.7	193.8
70°	119.0	138.8	156.4	174.0	187.2	193.8	200.5	180.6	152.0	125.6	119.0
72.5°	85.9	103.5	119.0	132.2	147.6	152.0	152.0	138.8	112.3	88.1	81.5
75°	59.5	74.9	88.1	96.9	110.1	114.5	114.5	103.5	83.7	63.9	57.3
77.5°	2.2	15.4	15.4	13.2	17.6	22.0	22.0	26.4	24.2	17.6	15.4
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°	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8
2.5°	2460.6	2539.9	2561.9	2643.4	2716.1	2788.8	2876.9	2929.8	3009.1	3064.1	3095.0
5°	2218.3	2284.3	2363.6	2484.8	2610.4	2749.1	2916.6	3061.9	3244.8	3379.2	3423.2
7.5°	2042.0	2127.9	2220.5	2372.5	2544.3	2729.3	2965.0	3202.9	3482.7	3665.5	3782.3
10°	2009.0	2097.1	2220.5	2370.3	2550.9	2762.4	3050.9	3359.3	3709.6	3932.1	4064.2
12.5°	2167.6	2262.3	2315.2	2383.5	2520.0	2755.7	3125.8	3517.9	3929.9	4172.2	4313.2
15°	2401.1	2484.8	2398.9	2313.0	2401.1	2685.3	3167.7	3650.1	4123.7	4403.5	4548.9
17.5°	2561.9	2568.5	2381.3	2198.4	2222.7	2557.5	3183.1	3782.3	4330.8	4623.8	4775.7
20°	2546.5	2493.6	2304.2	2101.5	2026.6	2392.3	3165.5	3899.0	4540.0	4846.2	4996.0
22.5°	2427.5	2365.8	2205.0	2006.8	1861.4	2196.2	3134.6	4004.8	4731.7	5079.7	5220.7
25°	2284.3	2218.3	2086.1	1912.1	1755.7	2006.8	3110.4	4150.1	4974.0	5383.7	5493.9
27.5°	2116.9	2059.7	1947.3	1821.7	1711.6	1863.6	3103.8	4341.8	5267.0	5753.8	5830.9
30°	1953.9	1901.0	1812.9	1740.2	1694.0	1779.9	3081.8	4546.7	5617.2	6179.0	6262.7
32.5°	1797.5	1744.6	1689.6	1678.6	1680.8	1749.1	3006.9	4749.3	6033.6	6795.8	6857.4
35°	1663.1	1601.5	1579.4	1605.9	1654.3	1696.2	2795.4	4916.7	6480.7	7467.6	7518.3
37.5°	1535.4	1473.7	1471.5	1535.4	1588.2	1614.7	2546.5	5081.9	7084.3	8150.5	8214.4
40°	1418.6	1356.9	1379.0	1456.1	1497.9	1511.1	2244.7	5333.1	7723.1	8870.8	8835.6
42.5°	1319.5	1255.6	1268.8	1368.0	1405.4	1440.7	1967.1	5542.3	8337.7	9553.7	9542.7
45°	1222.6	1174.1	1165.3	1273.2	1306.3	1447.3	1764.5	5703.1	9128.6	10423.8	10441.4
47.5°	1127.9	1090.4	1092.6	1138.9	1220.4	1480.3	1592.7	5808.9	10276.2	11802.8	11496.6
50°	1041.9	1013.3	1037.5	984.7	1165.3	1438.5	1445.1	5786.9	11558.3	13124.5	12509.9
52.5°	947.2	940.6	951.6	823.9	1077.2	1268.8	1306.3	5493.9	12159.7	14027.7	13677.4
55°	850.3	848.1	760.0	658.6	901.0	1013.3	1119.0	4584.1	12139.8	14507.9	14933.0
57.5°	735.7	718.1	577.1	537.5	700.5	704.9	1019.9	3002.5	10758.7	13358.0	14239.1
60°	557.3	544.1	422.9	436.2	489.0	451.6	812.8	1495.7	8040.4	10406.2	11399.7
62.5°	385.5	367.9	315.0	337.0	315.0	257.7	497.8	740.2	4870.5	6571.1	7472.0
65°	282.0	262.1	215.9	185.0	147.6	147.6	189.4	284.2	1885.6	2793.2	3368.1
67.5°	174.0	165.2	127.8	92.5	90.3	96.9	99.1	141.0	304.0	484.6	592.6
70°	112.3	103.5	85.9	59.5	55.1	57.3	59.5	66.1	77.1	83.7	101.3
72.5°	77.1	72.7	61.7	33.0	26.4	28.6	30.8	30.8	37.4	35.2	41.9
75°	55.1	50.7	44.1	15.4	8.8	11.0	13.2	11.0	13.2	8.8	11.0
77.5°	15.4	15.4	11.0	2.2	0.0	2.2	4.4	4.4	2.2	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	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: P640294

CATALOG NUMBER: GWS-SA5D-750-U-SLL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8	2799.8
2.5°	3174.3	3225.0	3244.8	3216.1	3240.4	3200.7	3185.3	3125.8	3121.4	3110.4
5°	3601.6	3716.2	3784.5	3826.3	3777.9	3725.0	3645.7	3509.1	3467.3	3440.8
7.5°	4022.4	4200.8	4317.6	4372.6	4359.4	4251.5	4108.3	3879.2	3797.7	3758.0
10°	4388.1	4606.1	4747.1	4815.4	4786.8	4692.0	4487.2	4200.8	4092.9	4068.6
12.5°	4643.6	4844.0	4941.0	5000.4	5002.6	4965.2	4771.3	4482.8	4355.0	4324.2
15°	4804.4	4890.3	4892.5	4927.7	4989.4	5073.1	4982.8	4727.3	4590.7	4544.5
17.5°	4905.7	4811.0	4714.1	4722.9	4824.2	5046.7	5139.2	4943.2	4797.8	4747.1
20°	4978.4	4678.8	4498.2	4500.4	4603.9	4941.0	5247.2	5152.4	5002.6	4956.4
22.5°	5024.7	4562.1	4304.3	4297.7	4407.9	4815.4	5346.3	5401.4	5253.8	5200.9
25°	5119.4	4507.0	4187.6	4225.0	4322.0	4775.7	5480.7	5731.8	5595.2	5524.7
27.5°	5289.0	4562.1	4176.6	4262.5	4372.6	4892.5	5714.2	6172.3	6031.4	5952.1
30°	5582.0	4769.1	4346.2	4465.1	4597.3	5198.7	6106.3	6786.9	6584.3	6509.4
32.5°	6053.4	5198.7	4870.5	5126.0	5253.8	5700.9	6694.4	7476.4	7311.2	7161.4
35°	6703.2	6179.0	6141.5	6736.3	6705.4	6652.6	7417.0	8322.3	8073.4	7928.0
37.5°	7597.6	7756.2	8033.7	8624.1	8604.3	8201.2	8366.4	9121.9	8994.2	8806.9
40°	8714.4	9051.5	9522.9	10368.8	10104.4	9597.8	9531.7	9941.4	9837.9	9617.6
42.5°	9373.1	9954.6	10853.4	11613.4	11401.9	10516.3	10441.4	11036.2	10809.3	10569.2
45°	9679.3	10690.4	12452.6	13481.4	12840.3	11126.5	11097.9	12463.6	12335.9	12014.3
47.5°	9820.2	11432.7	14325.0	15882.5	14684.1	11661.8	11558.3	14534.3	14366.9	13988.0
50°	9976.6	12457.0	16580.8	18664.6	16911.2	12267.6	12342.5	16464.0	16393.5	15946.3
52.5°	10320.3	13540.8	19358.5	21845.5	19611.9	13217.0	13688.4	18283.5	17807.7	17292.3
55°	10835.8	14721.6	22248.7	25094.7	22367.6	14492.5	15144.5	19250.6	17915.7	17345.1
57.5°	10265.2	15016.7	23960.3	27363.6	23590.2	14496.9	13913.1	17574.2	15756.9	15204.0
60°	8146.1	13970.4	23301.6	26872.4	22548.2	12873.4	10652.9	13721.5	11937.2	11567.1
62.5°	5507.1	11716.9	20512.8	22726.7	19299.1	10126.4	6923.5	8923.7	7390.5	7084.3
65°	3017.9	8740.9	16574.1	17193.1	15104.9	7073.3	3562.0	3872.6	2949.6	2813.0
67.5°	832.7	6084.2	12194.9	11406.3	10597.8	4606.1	920.8	691.7	493.4	489.0
70°	209.3	4024.6	7306.8	7531.5	6498.4	2949.6	176.2	83.7	66.1	63.9
72.5°	88.1	1731.4	3467.3	3984.9	3326.3	1365.8	63.9	24.2	19.8	15.4
75°	11.0	138.8	295.2	447.2	306.2	147.6	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)