

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: P640298

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640298
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16394 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

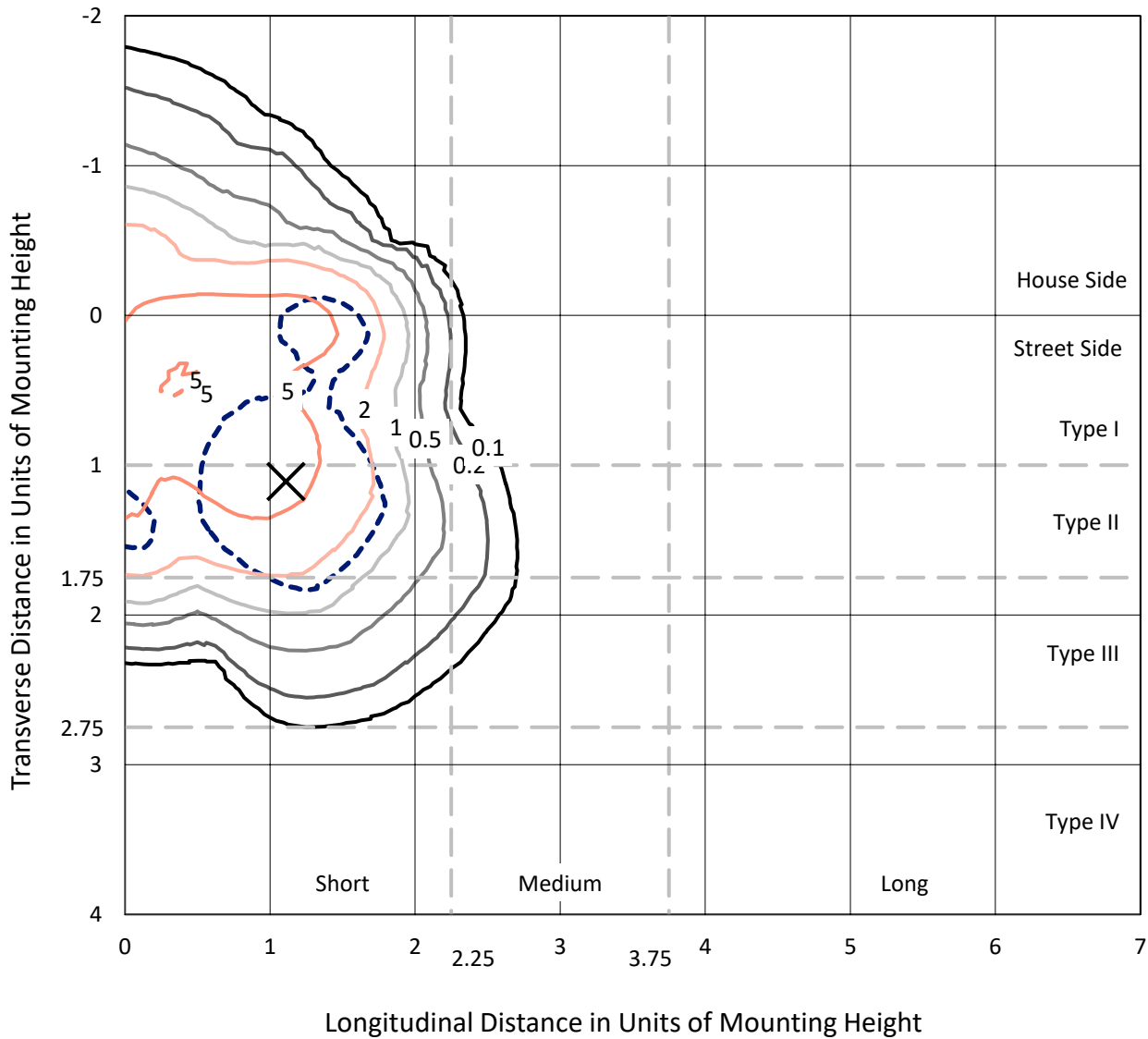
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

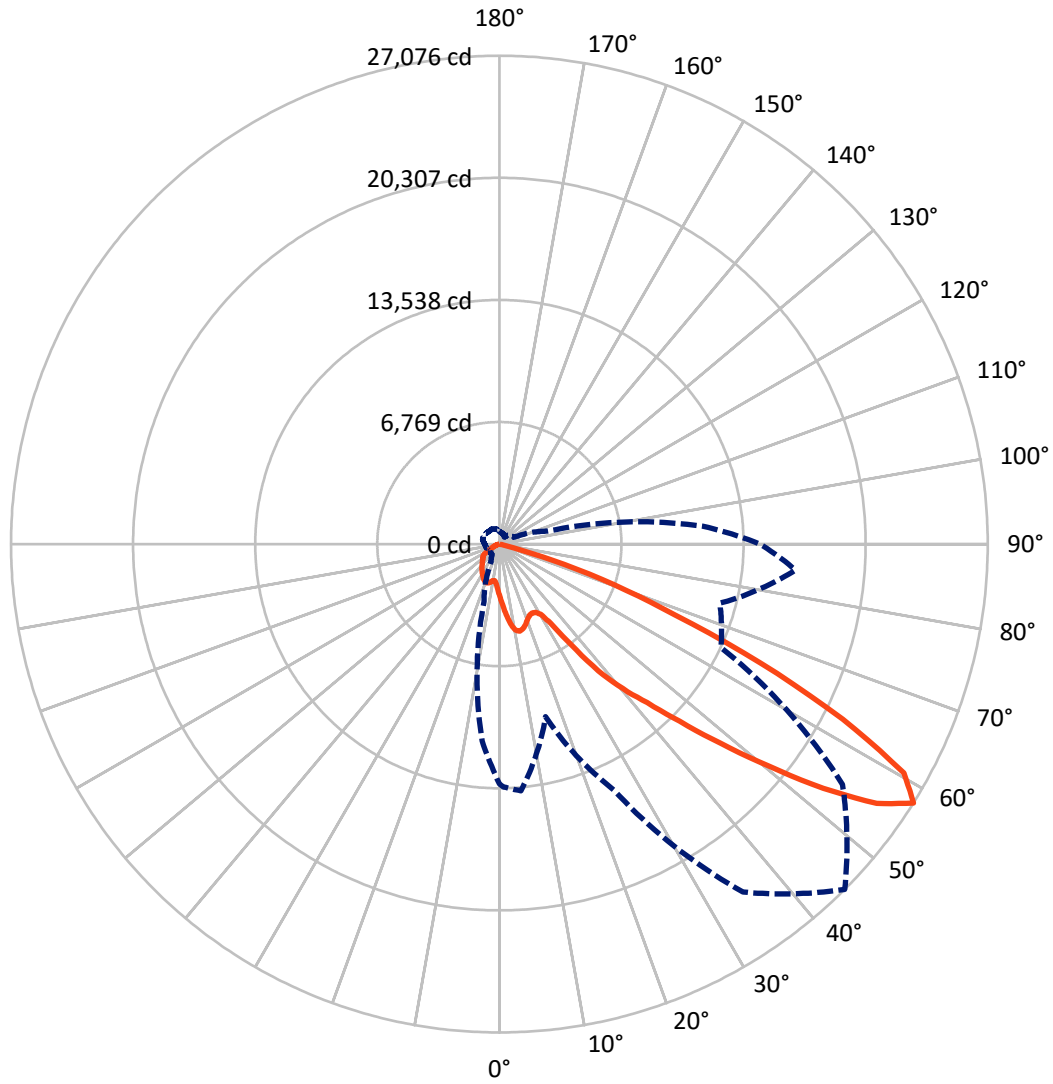
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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
House Side	Lumens	3671.1	0.0	3671.1
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12722.9	0.0	12722.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	16394.0	0.0	16394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.5	1.7
10°-20°	917.0	5.6
20°-30°	1489.6	9.1
30°-40°	2301.7	14.0
40°-50°	3690.7	22.5
50°-60°	5044.2	30.8
60°-70°	2443.0	14.9
70°-80°	223.7	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°	16394.0	100.0
0°-180°	16394.0	100.0

Coefficient of Utilization



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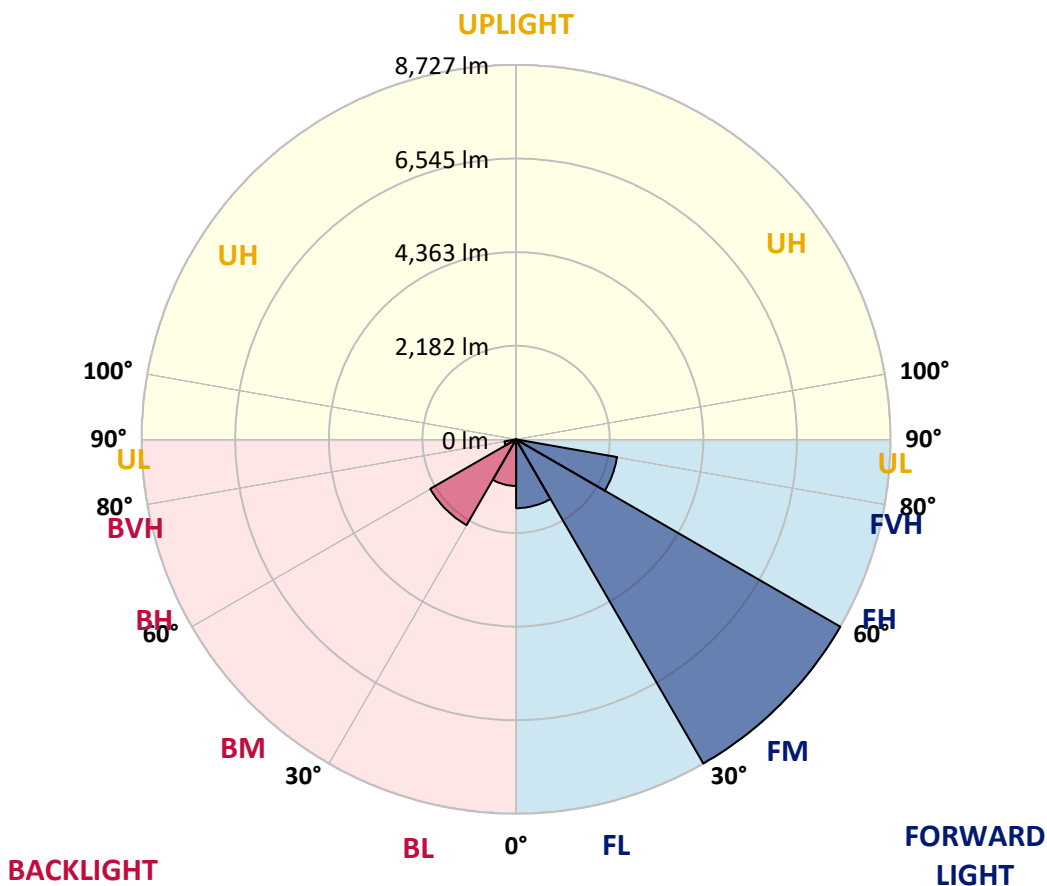
CATALOG NUMBER: GWS-SA5D-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.8	9.8			
FM (30°-60°)	8726.9	53.2			
FH (60°-80°)	2391.6	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1086.2	6.6	B3/2500		
BM (30°-60°)	2309.7	14.1	B2/2500		
BH (60°-80°)	275.2	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°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	3121.5	3141.4	3174.4	3244.9	3304.4	3344.0	3361.7	3357.3	3333.0	3315.4	3280.2
5°	3456.4	3456.4	3520.3	3681.1	3804.4	3881.5	3921.2	3897.0	3848.5	3771.4	3652.4
7.5°	3749.4	3760.4	3868.3	4097.4	4284.7	4394.8	4458.7	4445.5	4359.6	4212.0	3974.1
10°	3978.5	3991.7	4134.9	4414.7	4634.9	4747.3	4842.0	4850.8	4756.1	4560.0	4286.9
12.5°	4201.0	4214.2	4364.0	4632.7	4826.6	4872.9	4956.6	4989.6	4965.4	4826.6	4542.4
15°	4441.1	4471.9	4599.7	4800.2	4881.7	4826.6	4881.7	4941.2	5022.7	5009.4	4753.9
17.5°	4676.8	4698.8	4828.8	4899.3	4809.0	4665.8	4692.2	4762.7	4947.8	5128.4	4963.2
20°	4894.9	4925.7	5033.7	4941.2	4668.0	4445.5	4447.7	4540.2	4822.2	5201.1	5176.9
22.5°	5124.0	5170.3	5247.4	4987.4	4538.0	4271.5	4282.5	4366.2	4723.1	5269.4	5419.2
25°	5423.6	5467.7	5518.3	5102.0	4496.2	4185.6	4227.4	4304.5	4723.1	5386.1	5718.8
27.5°	5828.9	5859.8	5862.0	5315.6	4568.9	4198.8	4286.9	4375.0	4864.1	5619.7	6119.7
30°	6337.8	6386.3	6322.4	5648.3	4795.8	4375.0	4505.0	4615.1	5168.1	6014.0	6710.1
32.5°	6956.8	7025.1	6939.2	6141.7	5269.4	4983.0	5218.7	5282.6	5652.7	6584.5	7379.8
35°	7683.8	7741.1	7648.5	6824.7	6375.3	6428.1	6855.5	6774.0	6626.4	7287.3	8161.8
37.5°	8481.2	8534.1	8355.7	7860.0	8009.8	8238.9	8921.8	8642.1	8166.2	8192.7	9009.9
40°	9212.6	9269.9	8990.1	8985.7	9294.1	9712.7	10536.6	10151.1	9503.4	9377.8	9805.2
42.5°	9970.4	10010.1	9756.7	9584.9	10285.4	11146.8	12019.1	11499.3	10389.0	10252.4	10800.9
45°	11052.1	11135.8	10684.2	9880.1	11177.6	12796.8	14012.8	12997.2	10992.6	10882.4	12325.3
47.5°	12642.6	12704.2	11783.4	10065.1	12008.1	14852.1	16504.3	14940.2	11523.5	11272.3	14409.3
50°	13957.7	13999.6	12794.6	10267.8	12891.5	17068.2	19343.9	17244.5	12120.5	11917.8	16354.5
52.5°	14927.0	15085.6	14122.9	10684.2	14052.4	19674.3	22487.4	19973.9	13052.3	13164.7	17967.0
55°	15127.5	15343.3	15030.5	10939.7	15074.6	22328.8	25390.9	22416.9	13981.9	14109.7	18508.9
57.5°	13294.6	13466.5	13726.4	9908.7	15050.4	23544.8	27076.1	23227.6	13559.0	12653.6	16480.1
60°	9959.4	10078.4	10549.8	7573.6	13841.0	22469.8	25763.2	21848.6	11856.1	9655.4	12556.7
62.5°	5906.0	5958.9	6555.9	4905.9	11488.2	19350.5	21366.1	18852.6	9369.0	6494.2	7690.4
65°	2266.8	2244.8	2700.8	2421.0	8448.2	15413.8	15891.9	14371.9	6428.1	2976.1	2932.1
67.5°	350.3	334.8	451.6	715.9	6093.3	10682.0	10485.9	10358.1	4026.9	693.9	605.8
70°	79.3	79.3	96.9	211.5	3722.9	6276.1	6716.7	6403.9	2577.4	147.6	79.3
72.5°	37.4	37.4	46.3	90.3	1348.2	2586.2	3013.6	2967.3	837.1	48.5	28.6
75°	13.2	15.4	15.4	19.8	81.5	134.4	308.4	220.3	52.9	0.0	0.0
77.5°	4.4	4.4	4.4	4.4	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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CATALOG NUMBER: GWS-SA5D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	3203.0	3187.6	3130.4	3053.2	2978.4	2912.3	2844.0	2762.5	2703.0	2634.7	2612.7
5°	3559.9	3463.0	3306.6	3143.6	2993.8	2866.0	2742.6	2610.5	2513.5	2416.6	2383.6
7.5°	3861.7	3718.5	3465.2	3220.7	3015.8	2835.2	2656.7	2476.1	2335.1	2220.5	2185.3
10°	4132.7	3967.5	3628.2	3326.4	3068.7	2859.4	2643.5	2416.6	2233.8	2097.2	2064.1
12.5°	4366.2	4174.5	3767.0	3405.7	3090.7	2850.6	2641.3	2460.7	2295.4	2139.0	2097.2
15°	4562.3	4350.8	3883.8	3458.6	3057.7	2740.4	2557.6	2529.0	2515.7	2343.9	2262.4
17.5°	4753.9	4516.0	3978.5	3482.8	2965.1	2546.6	2414.4	2544.4	2683.2	2570.8	2467.3
20°	4954.4	4683.4	4075.4	3487.2	2810.9	2328.5	2306.5	2511.3	2687.6	2652.3	2555.4
22.5°	5190.1	4892.7	4196.6	3485.0	2617.1	2143.4	2227.2	2447.4	2590.6	2588.4	2511.3
25°	5531.5	5157.0	4359.6	3498.2	2405.6	2000.3	2139.0	2339.5	2456.3	2451.9	2388.0
27.5°	5897.2	5472.1	4571.1	3531.3	2225.0	1916.5	2035.5	2191.9	2293.2	2288.8	2233.8
30°	6410.5	5835.5	4773.7	3533.5	2095.0	1872.5	1920.9	2028.9	2125.8	2114.8	2072.9
32.5°	7033.9	6245.3	4943.4	3407.9	2013.5	1830.6	1802.0	1857.1	1932.0	1916.5	1905.5
35°	7787.3	6732.1	5088.7	3132.6	1887.9	1746.9	1669.8	1680.8	1733.7	1742.5	1738.1
37.5°	8646.5	7311.5	5269.4	2769.1	1718.3	1625.8	1522.2	1513.4	1544.2	1572.9	1594.9
40°	9494.6	7963.6	5513.9	2401.2	1564.1	1471.6	1372.4	1350.4	1363.6	1414.3	1460.5
42.5°	10448.5	8719.2	5778.3	2086.2	1458.3	1301.9	1207.2	1165.3	1202.8	1284.3	1339.4
45°	11823.1	9778.8	6036.0	1835.0	1414.3	1152.1	1024.4	1020.0	1061.8	1167.5	1229.2
47.5°	13752.8	11149.0	6205.6	1639.0	1412.1	1035.4	883.4	909.8	958.3	1061.8	1132.3
50°	15634.1	12865.1	6018.4	1489.2	1365.8	958.3	777.6	830.5	879.0	969.3	1042.0
52.5°	16768.6	13788.1	5289.2	1348.2	1222.6	923.0	674.1	766.6	775.4	856.9	934.0
55°	16649.7	13191.1	4051.2	1130.1	1011.1	872.4	566.2	691.7	696.1	757.8	823.9
57.5°	14451.2	11325.2	2782.3	916.4	760.0	720.4	467.0	583.8	625.6	663.1	711.5
60°	10770.1	8263.2	1240.2	744.6	482.4	486.8	398.7	440.6	504.5	548.5	590.4
62.5°	6346.6	4753.9	504.5	447.2	266.6	306.2	321.6	321.6	361.3	394.3	420.8
65°	2399.0	1663.2	204.9	224.7	138.8	143.2	189.5	233.5	264.4	293.0	328.2
67.5°	420.8	290.8	105.7	83.7	81.5	72.7	96.9	152.0	169.6	191.7	207.1
70°	70.5	59.5	44.1	41.9	37.4	39.7	63.9	107.9	119.0	125.6	132.2
72.5°	19.8	17.6	13.2	11.0	8.8	11.0	39.7	83.7	88.1	92.5	99.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	59.5	63.9	66.1	72.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	17.6	22.0	17.6
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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CATALOG NUMBER: GWS-SA5D-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	2599.4	2555.4	2531.2	2517.9	2517.9	2500.3	2480.5	2473.9	2502.5	2502.5	2551.0
5°	2341.7	2306.5	2266.8	2242.6	2205.1	2211.7	2189.7	2187.5	2216.1	2229.4	2280.0
7.5°	2163.3	2119.2	2095.0	2079.6	2059.7	2050.9	2031.1	2024.5	2039.9	2061.9	2110.4
10°	2044.3	2037.7	2035.5	2046.5	2046.5	2035.5	2017.9	2006.9	2011.3	2053.1	2108.2
12.5°	2075.2	2088.4	2092.8	2110.4	2119.2	2110.4	2097.2	2101.6	2130.2	2207.3	2288.8
15°	2209.5	2198.5	2194.1	2202.9	2209.5	2200.7	2196.3	2229.4	2328.5	2438.6	2531.2
17.5°	2352.7	2282.2	2251.4	2251.4	2255.8	2251.4	2255.8	2319.7	2480.5	2590.6	2658.9
20°	2425.4	2295.4	2247.0	2236.0	2244.8	2247.0	2262.4	2335.1	2511.3	2588.4	2603.9
22.5°	2403.4	2240.4	2185.3	2176.5	2185.3	2194.1	2209.5	2271.2	2436.4	2476.1	2469.5
25°	2293.2	2132.4	2088.4	2088.4	2108.2	2106.0	2112.6	2156.7	2293.2	2317.5	2306.5
27.5°	2154.5	2002.5	1965.0	1987.0	2004.7	2000.3	2002.5	2039.9	2141.2	2147.8	2136.8
30°	2013.5	1881.3	1846.0	1872.5	1896.7	1892.3	1894.5	1932.0	1995.8	1989.2	1973.8
32.5°	1870.3	1773.4	1746.9	1762.3	1799.8	1795.4	1804.2	1843.8	1868.1	1839.4	1821.8
35°	1738.1	1687.4	1667.6	1676.4	1705.1	1711.7	1727.1	1753.5	1753.5	1718.3	1687.4
37.5°	1614.7	1608.1	1594.9	1583.9	1610.3	1630.2	1652.2	1683.0	1639.0	1588.3	1559.7
40°	1500.2	1528.8	1511.2	1482.6	1498.0	1526.6	1570.7	1594.9	1542.0	1491.4	1442.9
42.5°	1394.4	1442.9	1436.3	1401.1	1414.3	1440.7	1491.4	1511.2	1449.5	1392.2	1346.0
45°	1293.1	1361.4	1365.8	1321.8	1335.0	1361.4	1420.9	1427.5	1348.2	1286.5	1253.5
47.5°	1205.0	1279.9	1282.1	1249.1	1253.5	1290.9	1346.0	1348.2	1257.9	1200.6	1158.7
50°	1121.3	1207.2	1213.8	1185.2	1189.6	1233.6	1279.9	1271.1	1174.2	1114.7	1077.2
52.5°	1020.0	1136.7	1152.1	1138.9	1156.5	1191.8	1220.4	1189.6	1077.2	1017.7	984.7
55°	909.8	1061.8	1094.9	1086.0	1105.9	1134.5	1141.1	1121.3	980.3	920.8	890.0
57.5°	782.0	874.6	931.8	914.2	929.6	958.3	978.1	962.7	856.9	810.7	784.2
60°	647.7	709.3	722.6	693.9	680.7	731.4	777.6	757.8	667.5	638.8	608.0
62.5°	473.6	544.1	552.9	515.5	500.1	555.1	594.8	575.0	475.8	445.0	420.8
65°	378.9	445.0	462.6	427.4	418.6	460.4	484.6	436.2	365.7	332.6	306.2
67.5°	248.9	301.8	348.1	345.9	328.2	341.5	323.8	284.2	233.5	215.9	198.3
70°	154.2	185.0	213.7	224.7	222.5	218.1	193.9	165.2	149.8	143.2	134.4
72.5°	119.0	149.8	171.8	178.4	180.6	174.0	154.2	127.8	112.3	103.5	96.9
75°	88.1	112.3	130.0	138.8	143.2	138.8	119.0	101.3	85.9	79.3	72.7
77.5°	30.8	37.4	46.3	50.7	48.5	46.3	41.9	41.9	33.0	30.8	26.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4	2881.4
2.5°	2606.1	2645.7	2718.4	2784.5	2855.0	2927.7	3007.0	3088.5	3125.9	3121.5
5°	2357.1	2443.0	2562.0	2692.0	2837.4	2993.8	3167.8	3346.2	3423.3	3456.4
7.5°	2200.7	2321.9	2478.3	2643.5	2835.2	3057.7	3319.8	3599.6	3711.9	3749.4
10°	2220.5	2361.5	2491.5	2652.3	2857.2	3145.8	3471.8	3804.4	3936.6	3978.5
12.5°	2381.4	2412.2	2447.4	2579.6	2837.4	3211.9	3610.6	4007.1	4159.1	4201.0
15°	2526.8	2383.6	2317.5	2438.6	2766.9	3258.1	3751.6	4225.2	4392.6	4441.1
17.5°	2533.4	2317.5	2169.9	2264.6	2652.3	3277.9	3890.4	4447.7	4630.5	4676.8
20°	2451.9	2244.8	2055.3	2057.5	2495.9	3273.5	4004.9	4648.2	4853.0	4894.9
22.5°	2332.9	2158.9	1962.8	1894.5	2328.5	3264.7	4130.5	4861.8	5084.3	5124.0
25°	2200.7	2048.7	1874.7	1771.1	2161.1	3273.5	4306.7	5141.6	5386.1	5423.6
27.5°	2057.5	1927.6	1806.4	1722.7	2020.1	3306.6	4518.2	5498.5	5789.3	5828.9
30°	1907.7	1810.8	1762.3	1711.7	1932.0	3315.4	4747.3	5914.8	6282.7	6337.8
32.5°	1760.1	1707.3	1709.5	1718.3	1848.3	3253.7	4956.6	6377.5	6868.7	6956.8
35°	1623.6	1608.1	1652.2	1696.2	1727.1	3095.1	5139.4	6923.8	7593.5	7683.8
37.5°	1506.8	1520.0	1575.1	1619.1	1594.9	2870.4	5381.7	7606.7	8404.1	8481.2
40°	1394.4	1427.5	1491.4	1511.2	1493.6	2608.3	5672.5	8265.4	9106.9	9212.6
42.5°	1290.9	1315.1	1405.5	1409.9	1464.9	2341.7	5952.3	8974.7	9915.4	9970.4
45°	1207.2	1202.8	1295.3	1324.0	1502.4	2046.5	6225.5	9919.8	10972.8	11052.1
47.5°	1125.7	1121.3	1143.3	1273.3	1517.8	1773.4	6496.4	11303.2	12506.0	12642.6
50°	1048.6	1055.2	986.9	1249.1	1434.1	1564.1	6619.8	12583.1	13900.4	13957.7
52.5°	980.3	956.1	837.1	1169.8	1255.7	1365.8	6269.5	13164.7	14764.0	14927.0
55°	883.4	749.0	689.5	949.5	991.3	1191.8	5135.0	12827.6	14838.9	15127.5
57.5°	755.6	588.2	586.0	700.5	700.5	1105.9	3289.0	10959.5	12788.0	13294.6
60°	581.6	456.0	484.6	486.8	449.4	806.3	1846.0	7939.3	9454.9	9959.4
62.5°	414.1	348.1	365.7	290.8	257.7	403.1	885.6	4571.1	5835.5	5906.0
65°	277.6	235.7	191.7	160.8	158.6	171.8	365.7	1652.2	2009.1	2266.8
67.5°	182.8	143.2	101.3	101.3	114.6	114.6	138.8	273.2	383.3	350.3
70°	119.0	99.1	63.9	61.7	74.9	74.9	70.5	74.9	79.3	79.3
72.5°	88.1	74.9	37.4	33.0	41.9	44.1	39.7	37.4	37.4	37.4
75°	66.1	52.9	22.0	15.4	19.8	26.4	22.0	15.4	15.4	13.2
77.5°	26.4	19.8	8.8	6.6	11.0	15.4	13.2	6.6	4.4	4.4
80°	2.2	4.4	4.4	4.4	6.6	8.8	11.0	4.4	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.4	6.6	8.8	4.4	2.2	2.2
85°	0.0	0.0	0.0	0.0	4.4	6.6	4.4	2.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	4.4	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)