

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: P640296

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640296
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
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-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18605.7 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

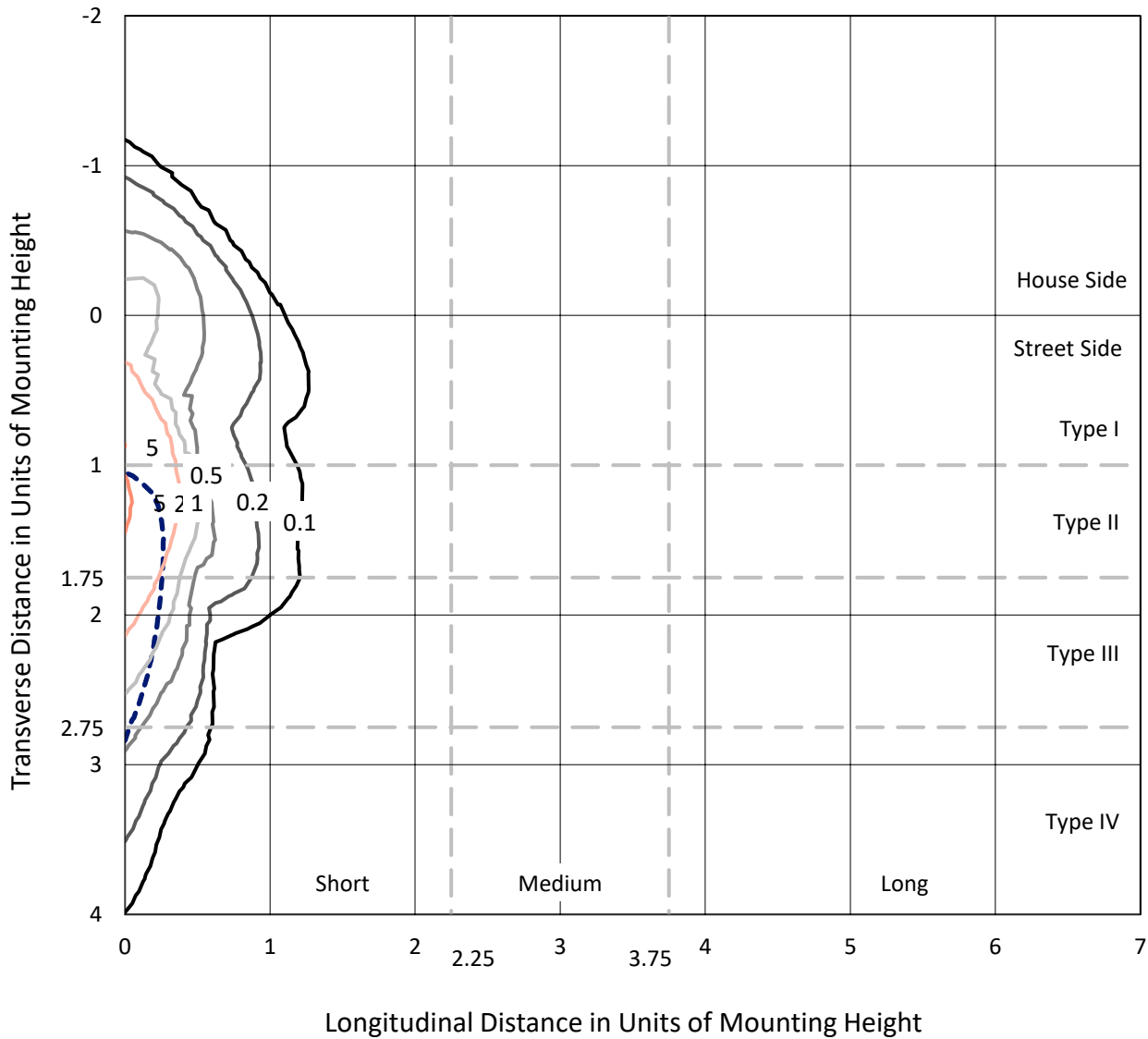
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

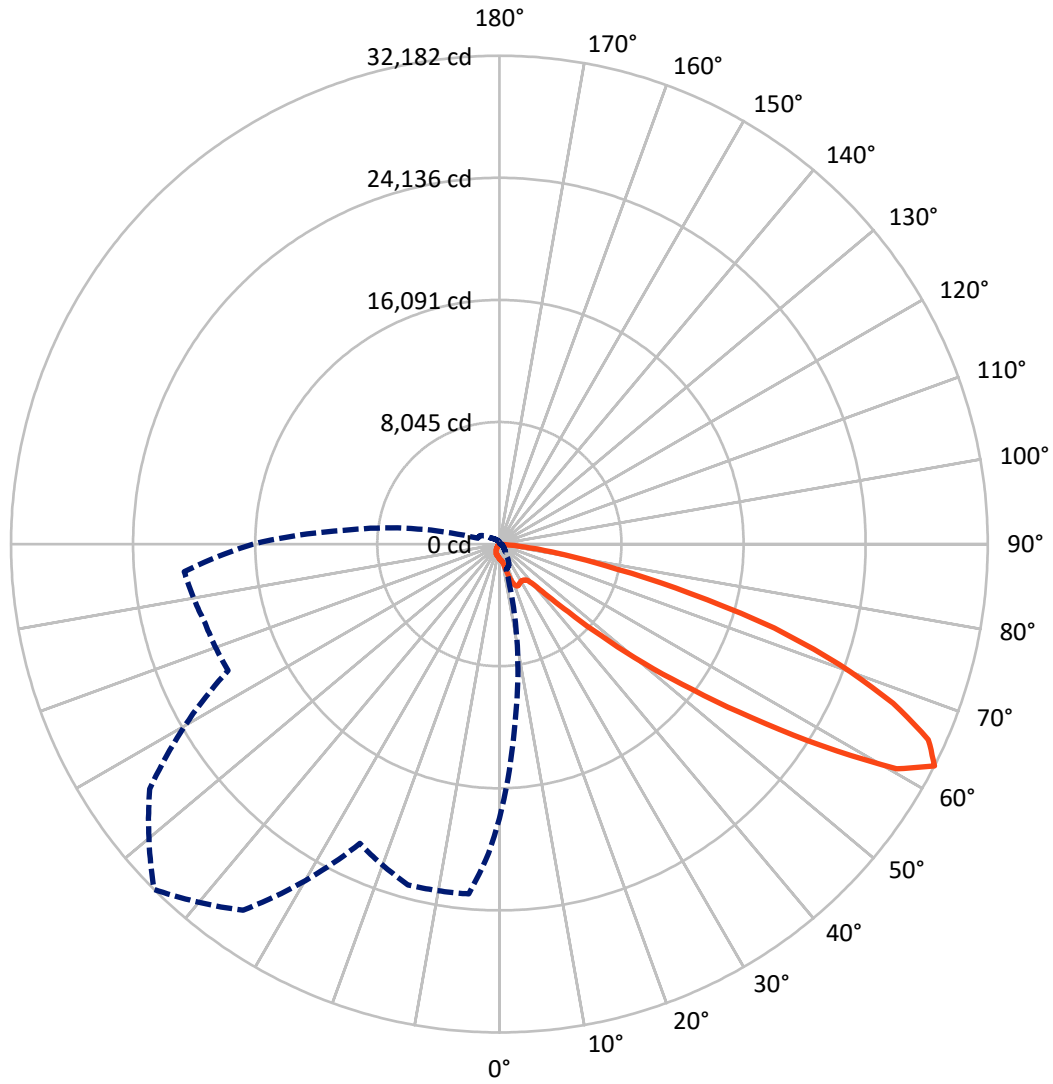
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.7	0.0	2161.7
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	16444.0	0.0	16444.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	18605.7	0.0	18605.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	0.4
10°-20°	285.6	1.5
20°-30°	645.2	3.5
30°-40°	1111.5	6.0
40°-50°	2096.7	11.3
50°-60°	4681.4	25.2
60°-70°	6261.2	33.7
70°-80°	3139.8	16.9
80°-90°	300.9	1.6
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°	18605.7	100.0
0°-180°	18605.7	100.0

Coefficient of Utilization



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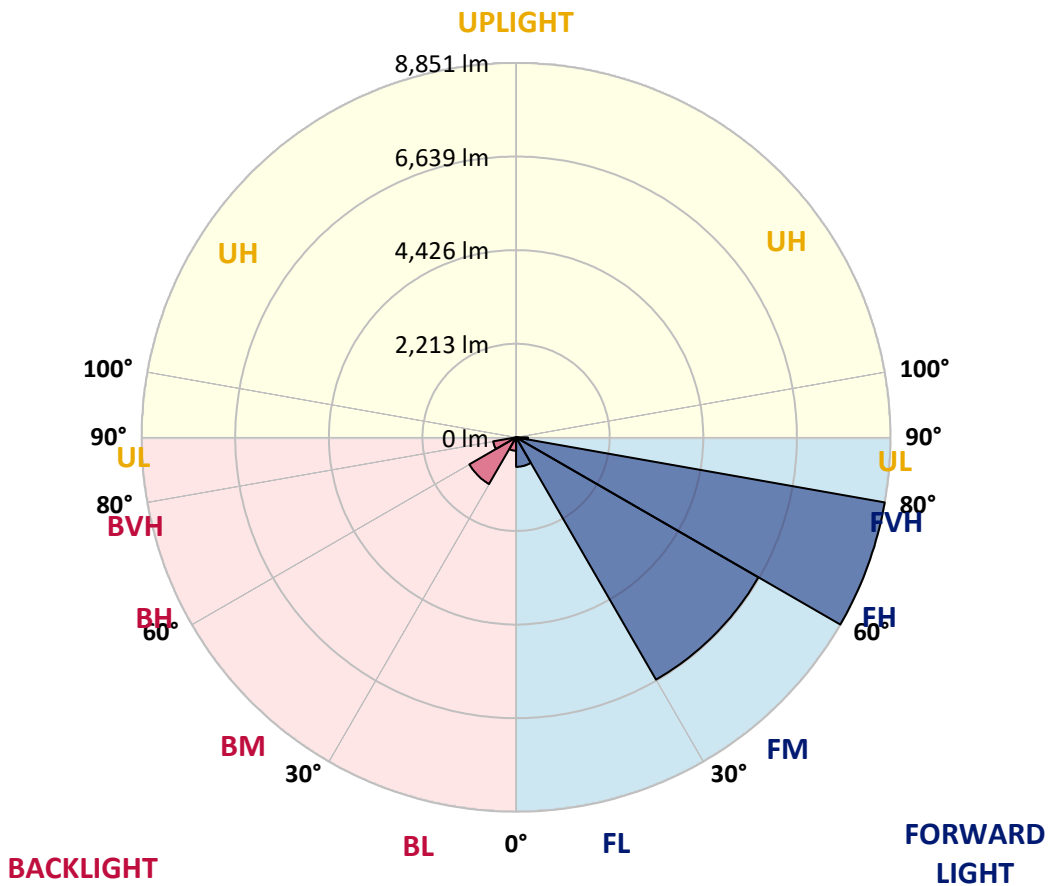
CATALOG NUMBER: GWS-SA5D-750-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	696.8	3.7			
FM (30°-60°)	6614.9	35.6			
FH (60°-80°)	8851.3	47.6			G4/12000
FVH (80°-90°)	280.9	1.5			G3/500
BL (0°-30°)	317.3	1.7	B1/500		
BM (30°-60°)	1274.7	6.9	B2/2500		
BH (60°-80°)	549.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	20.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	953.9	951.7	947.3	934.1	923.1	916.5	903.2	903.2	901.0	896.6	887.8
5°	923.1	914.2	905.4	881.2	854.8	839.3	821.7	819.5	819.5	815.1	812.9
7.5°	874.6	865.8	854.8	815.1	790.9	775.5	760.0	757.8	751.2	751.2	751.2
10°	848.2	834.9	817.3	773.3	749.0	735.8	724.8	718.2	713.8	707.2	705.0
12.5°	905.4	881.2	843.8	764.4	731.4	713.8	700.6	696.2	682.9	674.1	667.5
15°	1083.9	1024.4	949.5	784.3	724.8	698.4	680.7	671.9	660.9	645.5	634.5
17.5°	1376.9	1291.0	1165.4	848.2	718.2	685.1	663.1	647.7	632.3	614.6	601.4
20°	1782.2	1654.5	1504.7	964.9	718.2	669.7	643.3	623.5	601.4	581.6	566.2
22.5°	2297.7	2170.0	1914.4	1163.2	727.0	649.9	619.0	592.6	566.2	548.5	530.9
25°	2874.9	2694.3	2456.4	1403.3	751.2	623.5	590.4	564.0	539.7	517.7	497.9
27.5°	3518.2	3322.1	3004.9	1744.8	804.1	597.0	559.6	535.3	513.3	491.3	464.8
30°	4110.8	3994.1	3670.2	2154.5	890.0	579.4	535.3	513.3	491.3	462.6	438.4
32.5°	4822.4	4615.3	4348.7	2621.6	1004.6	561.8	515.5	484.7	467.0	440.6	414.2
35°	5538.4	5362.1	5011.8	3196.6	1132.3	544.1	491.3	462.6	447.2	416.4	387.7
37.5°	6276.4	6236.7	5890.8	3833.2	1257.9	524.3	462.6	445.0	429.6	394.3	361.3
40°	7003.4	6930.7	6611.2	4560.2	1335.0	502.3	438.4	427.4	409.8	370.1	332.7
42.5°	7699.5	7644.4	7333.8	5256.4	1324.0	482.5	414.2	400.9	387.7	348.1	301.8
45°	8554.3	8464.0	8071.8	5771.9	1211.7	504.5	389.9	367.9	365.7	328.2	271.0
47.5°	10153.7	9856.3	9191.0	6168.4	1099.3	561.8	363.5	337.1	352.5	308.4	240.1
50°	12394.1	12043.9	11081.1	6476.8	1097.1	636.7	359.1	308.4	341.5	293.0	213.7
52.5°	14645.6	14028.8	12859.0	6642.1	1178.6	691.7	398.7	279.8	328.2	277.6	193.9
55°	16802.4	15522.4	13603.6	6095.7	1242.5	751.2	471.4	264.4	304.0	260.0	182.8
57.5°	18857.8	16723.0	13927.4	4822.4	1456.2	775.5	515.5	271.0	268.8	237.9	174.0
60°	19139.7	16665.8	13273.1	2804.4	1606.0	733.6	497.9	301.8	235.7	211.5	158.6
62.5°	18073.5	15557.7	11781.7	1749.2	1491.4	718.2	442.8	343.7	213.7	187.3	138.8
65°	16454.3	13819.5	9823.2	1127.9	1130.1	797.5	387.7	337.1	200.5	165.2	119.0
67.5°	13923.0	11565.8	7739.2	755.6	638.9	680.7	339.3	231.3	196.1	141.0	92.5
70°	10162.5	8232.6	5038.3	504.5	381.1	544.1	284.2	165.2	185.1	116.8	66.1
72.5°	7428.5	5531.8	2813.2	330.5	215.9	317.2	209.3	119.0	143.2	85.9	46.3
75°	5346.7	3806.8	1606.0	211.5	143.2	174.0	136.6	81.5	92.5	68.3	41.9
77.5°	2573.1	1854.9	729.2	116.8	96.9	88.1	72.7	50.7	57.3	61.7	37.5
80°	96.9	72.7	55.1	57.3	61.7	39.7	33.0	26.4	33.0	41.9	19.8
82.5°	0.0	0.0	0.0	6.6	8.8	11.0	13.2	11.0	13.2	15.4	2.2
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°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	894.4	890.0	894.4	898.8	903.2	907.6	901.0	905.4	909.8	898.8	903.2
5°	823.9	821.7	834.9	841.5	850.4	854.8	850.4	850.4	848.2	834.9	834.9
7.5°	762.2	764.4	775.5	790.9	801.9	808.5	804.1	801.9	795.3	775.5	775.5
10°	716.0	716.0	733.6	746.8	762.2	768.9	764.4	757.8	751.2	731.4	729.2
12.5°	678.5	678.5	691.7	713.8	731.4	740.2	738.0	729.2	718.2	698.4	696.2
15°	643.3	641.1	660.9	680.7	705.0	716.0	711.6	705.0	685.1	667.5	663.1
17.5°	608.0	605.8	623.5	649.9	676.3	691.7	689.5	674.1	656.5	634.5	630.1
20°	572.8	568.4	590.4	616.8	643.3	658.7	654.3	641.1	619.0	597.0	592.6
22.5°	537.5	535.3	550.8	572.8	597.0	610.2	608.0	597.0	575.0	555.2	555.2
25°	497.9	497.9	508.9	524.3	541.9	548.5	550.8	546.3	533.1	522.1	522.1
27.5°	464.8	458.2	462.6	467.0	475.9	486.9	486.9	491.3	493.5	489.1	491.3
30°	438.4	427.4	420.8	412.0	407.6	412.0	416.4	431.8	447.2	456.0	460.4
32.5°	407.6	394.3	376.7	352.5	337.1	332.7	345.9	374.5	403.2	423.0	434.0
35°	376.7	359.1	326.0	290.8	271.0	264.4	279.8	312.8	354.7	389.9	405.4
37.5°	345.9	321.6	275.4	233.5	211.5	207.1	222.5	257.8	306.2	354.7	374.5
40°	310.6	282.0	226.9	182.8	165.2	160.8	174.0	209.3	260.0	315.0	345.9
42.5°	275.4	240.1	182.8	145.4	127.8	127.8	145.4	171.8	218.1	277.6	315.0
45°	240.1	202.7	149.8	116.8	105.7	107.9	119.0	145.4	182.8	244.5	279.8
47.5°	207.1	174.0	123.4	96.9	88.1	90.3	103.5	125.6	156.4	211.5	248.9
50°	178.4	147.6	107.9	81.5	74.9	79.3	92.5	112.4	138.8	187.3	218.1
52.5°	160.8	132.2	99.1	70.5	66.1	70.5	83.7	101.3	125.6	165.2	196.1
55°	152.0	130.0	99.1	63.9	57.3	61.7	74.9	92.5	112.4	149.8	176.2
57.5°	149.8	134.4	105.7	57.3	48.5	52.9	66.1	83.7	103.5	136.6	158.6
60°	141.0	127.8	103.5	46.3	37.5	44.1	55.1	72.7	94.7	127.8	147.6
62.5°	123.4	112.4	90.3	37.5	28.6	33.0	46.3	63.9	85.9	116.8	138.8
65°	101.3	90.3	70.5	24.2	17.6	22.0	35.2	55.1	74.9	105.7	125.6
67.5°	74.9	63.9	48.5	15.4	8.8	15.4	28.6	46.3	68.3	94.7	114.6
70°	46.3	37.5	26.4	8.8	6.6	13.2	26.4	44.1	61.7	88.1	107.9
72.5°	26.4	17.6	11.0	4.4	6.6	13.2	26.4	44.1	59.5	83.7	101.3
75°	19.8	11.0	4.4	2.2	4.4	11.0	24.2	39.7	57.3	79.3	96.9
77.5°	13.2	6.6	2.2	0.0	2.2	8.8	22.0	37.5	52.9	74.9	92.5
80°	2.2	0.0	0.0	0.0	0.0	6.6	19.8	33.0	48.5	66.1	81.5
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.4	28.6	41.9	55.1	66.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	22.0	33.0	41.9	46.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	22.0	26.4	30.8
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°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	901.0	914.2	914.2	923.1	934.1	953.9	964.9	980.3	991.4	1002.4	1006.8
5°	832.7	834.9	837.1	841.5	854.8	876.8	896.6	920.9	949.5	971.5	984.7
7.5°	775.5	775.5	775.5	782.1	795.3	810.7	830.5	863.6	896.6	923.1	945.1
10°	727.0	733.6	735.8	746.8	762.2	782.1	804.1	832.7	870.2	905.4	945.1
12.5°	696.2	702.8	713.8	724.8	740.2	762.2	786.5	823.9	901.0	973.7	1057.4
15°	667.5	676.3	689.5	705.0	722.6	746.8	773.3	850.4	1031.0	1167.6	1299.8
17.5°	636.7	649.9	667.5	682.9	705.0	731.4	764.4	914.2	1268.9	1495.8	1720.6
20°	597.0	614.6	634.5	658.7	685.1	716.0	764.4	1046.4	1612.6	1938.6	2236.1
22.5°	559.6	577.2	601.4	632.3	663.1	693.9	775.5	1246.9	2055.4	2467.4	2844.1
25°	528.7	550.8	575.0	601.4	636.7	671.9	801.9	1528.9	2588.5	3119.5	3386.0
27.5°	500.1	526.5	550.8	572.8	603.6	643.3	861.4	1905.6	3218.6	3758.3	3967.6
30°	471.4	502.3	526.5	548.5	579.4	621.2	951.7	2385.9	3919.2	4443.5	4465.5
32.5°	447.2	475.9	504.5	526.5	555.2	603.6	1077.3	2947.6	4637.3	5144.0	4936.9
35°	420.8	453.8	480.3	504.5	535.3	588.2	1222.7	3553.5	5362.1	5787.3	5406.2
37.5°	394.3	431.8	464.8	482.5	513.3	572.8	1328.4	4185.7	6102.3	6415.2	5818.1
40°	370.1	412.0	449.4	467.0	482.5	553.0	1343.8	4833.4	6853.6	7034.2	6205.9
42.5°	343.7	389.9	423.0	447.2	460.4	539.7	1251.3	5379.8	7483.6	7651.1	6712.6
45°	315.0	370.1	396.5	414.2	440.6	548.5	1132.3	5802.7	8204.0	8492.6	7547.5
47.5°	286.4	348.1	370.1	383.3	418.6	601.4	1088.3	6084.7	9391.4	9990.6	8955.2
50°	260.0	328.2	352.5	350.3	414.2	669.7	1136.8	6298.4	11175.9	11880.8	10885.1
52.5°	231.3	306.2	334.9	326.0	447.2	722.6	1233.7	6468.0	12548.3	14097.1	13478.0
55°	207.1	282.0	308.4	306.2	508.9	762.2	1308.6	5573.6	13116.7	16156.9	16399.2
57.5°	189.5	255.5	277.6	315.0	548.5	762.2	1513.5	3956.6	13127.7	17672.5	20276.5
60°	174.0	231.3	246.7	345.9	533.1	722.6	1498.0	2423.3	12098.9	17569.0	22338.5
62.5°	160.8	209.3	229.1	354.7	471.4	716.0	1352.6	1502.5	10318.9	16231.8	20842.7
65°	149.8	191.7	220.3	326.0	427.4	766.6	912.0	1079.5	8369.2	14707.3	19126.5
67.5°	138.8	176.2	233.5	266.6	387.7	685.1	658.7	766.6	6569.4	13035.2	17551.4
70°	130.0	167.4	246.7	218.1	339.3	535.3	467.0	581.6	5029.5	10876.3	15332.9
72.5°	123.4	156.4	207.1	171.8	275.4	414.2	326.0	423.0	3286.9	8490.4	12499.9
75°	116.8	143.2	152.0	138.8	204.9	271.0	246.7	284.2	1958.5	6205.9	9484.0
77.5°	114.6	134.4	123.4	112.4	138.8	160.8	187.3	191.7	956.1	3104.0	4970.0
80°	101.3	121.2	105.7	92.5	94.7	105.7	138.8	127.8	218.1	788.7	1326.2
82.5°	79.3	94.7	88.1	77.1	77.1	77.1	92.5	85.9	70.5	354.7	599.2
85°	55.1	66.1	66.1	61.7	59.5	59.5	57.3	55.1	19.8	22.0	33.0
87.5°	37.5	46.3	48.5	46.3	39.7	35.2	30.8	26.4	8.8	0.0	4.4
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: P640296

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9	964.9
2.5°	1022.2	1028.8	1028.8	1020.0	1013.4	995.8	978.1	960.5	956.1	953.9
5°	1022.2	1048.6	1061.9	1059.6	1044.2	1015.6	978.1	938.5	927.5	923.1
7.5°	1006.8	1057.4	1097.1	1103.7	1075.1	1024.4	956.1	896.6	881.2	874.6
10°	1042.0	1141.2	1220.5	1231.5	1198.4	1099.3	989.2	887.8	863.6	848.2
12.5°	1231.5	1394.5	1491.4	1537.7	1473.8	1348.2	1165.4	984.7	929.7	905.4
15°	1614.8	1846.1	2031.2	2031.2	1971.7	1749.2	1517.9	1224.9	1150.0	1083.9
17.5°	2106.1	2396.9	2559.9	2542.3	2452.0	2295.5	2018.0	1597.2	1445.2	1376.9
20°	2665.6	2839.7	2877.1	2866.1	2826.5	2736.1	2544.5	2092.9	1888.0	1782.2
22.5°	3150.3	3104.0	3049.0	3004.9	2993.9	3020.3	2993.9	2645.8	2485.0	2297.7
25°	3478.6	3216.4	3051.2	2971.9	3009.3	3161.3	3326.5	3196.6	3068.8	2874.9
27.5°	3657.0	3203.2	2965.3	2883.7	2947.6	3163.5	3522.6	3742.9	3610.7	3518.2
30°	3753.9	3192.2	2910.2	2830.9	2927.8	3198.8	3659.2	4254.0	4258.4	4110.8
32.5°	3892.7	3262.7	2921.2	2848.5	2978.5	3304.5	3831.0	4773.9	4901.7	4822.4
35°	4049.1	3370.6	2971.9	2905.8	3066.6	3445.5	4022.7	5298.2	5564.8	5538.4
37.5°	4196.7	3491.8	3090.8	3026.9	3201.0	3566.7	4207.7	5813.7	6183.8	6276.4
40°	4350.9	3661.4	3456.5	3518.2	3615.1	3758.3	4373.0	6261.0	6864.6	7003.4
42.5°	4714.4	4249.6	4562.4	4679.2	4692.4	4397.2	4734.3	6833.7	7534.3	7699.5
45°	5525.1	5296.0	6192.7	6357.9	6272.0	5377.5	5604.5	7659.9	8470.6	8554.3
47.5°	6549.5	6655.3	8424.3	8994.9	8479.4	6534.1	6659.7	9398.0	10184.5	10153.7
50°	7743.6	8243.7	10957.8	12303.8	11070.1	8036.6	7875.8	11535.0	12488.9	12394.1
52.5°	9155.7	10089.8	14002.3	15914.5	14746.9	9726.3	9660.2	14365.8	14947.4	14645.6
55°	10933.5	11872.0	17505.1	20177.4	18516.3	11788.3	12015.2	17648.3	17760.7	16802.4
57.5°	13586.0	14196.2	21633.6	25065.8	22450.9	14590.5	16236.2	22016.9	20673.0	18857.8
60°	18401.7	17185.7	25623.2	30066.7	26636.6	18531.7	21803.2	24605.4	21642.4	19139.7
62.5°	20078.2	19723.5	28121.4	32181.6	29452.0	21767.9	23250.6	23138.2	20386.7	18073.5
65°	17538.2	19091.3	27674.2	31064.6	29090.7	21234.8	20864.7	21519.0	18972.3	16454.3
67.5°	16200.9	17606.5	25980.1	27982.6	27088.2	19426.1	18597.8	18419.4	15927.8	13923.0
70°	14852.7	16245.0	23523.7	23772.7	23356.3	16478.5	15390.2	14194.0	11905.1	10162.5
72.5°	13231.3	13997.9	20115.7	18934.9	18463.4	12942.7	12713.6	10689.0	8924.4	7428.5
75°	11539.4	11316.9	15683.2	12995.6	13348.0	10070.0	10737.5	7849.3	6538.5	5346.7
77.5°	8393.5	8228.2	10504.0	7893.4	8741.5	6595.8	5926.1	3132.7	2982.9	2573.1
80°	4683.6	5646.3	5672.8	4423.6	5518.5	4300.3	1482.6	103.5	66.1	96.9
82.5°	2176.6	2427.7	3075.4	2051.0	3148.1	2130.3	306.2	0.0	0.0	0.0
85°	705.0	1031.0	863.6	301.8	762.2	720.4	50.7	0.0	0.0	0.0
87.5°	41.9	85.9	22.0	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

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