

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: P637660

Luminaire Tested: GWS-SA4D-730-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13839.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

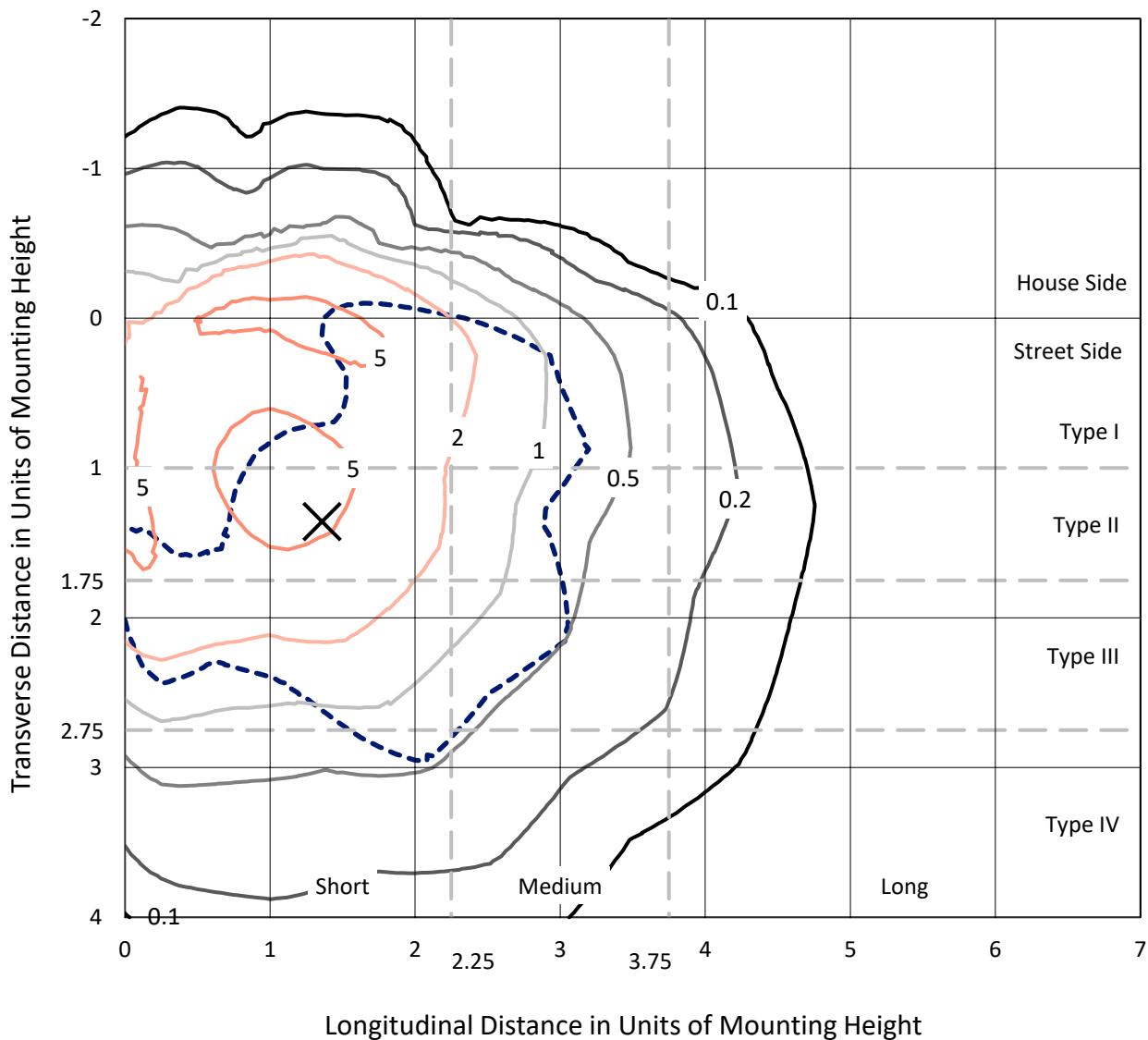
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637660
 CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

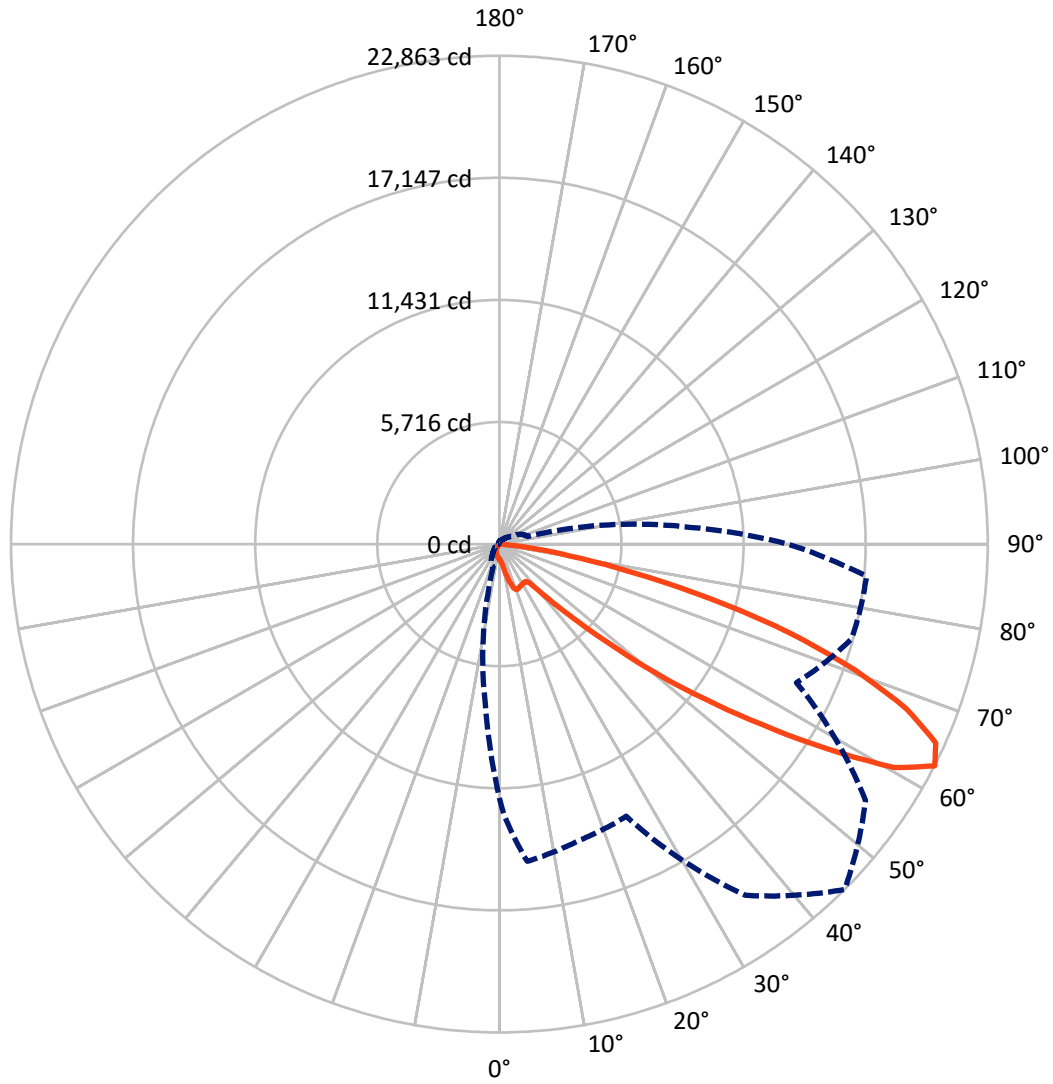
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

REPORT NUMBER: P637660
CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P637660
 CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

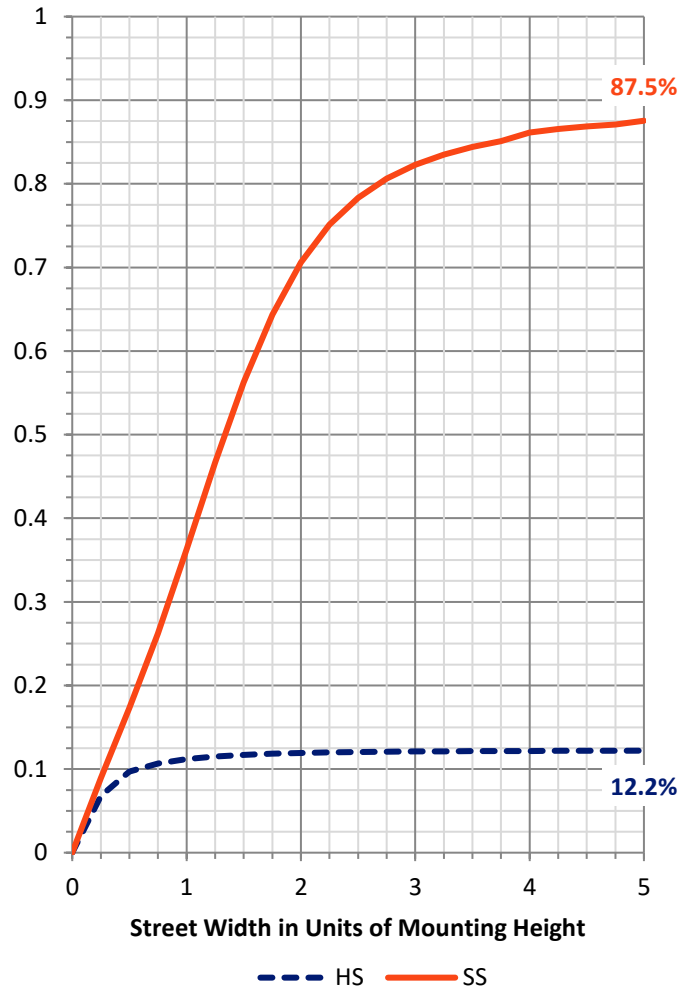
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1707.8	0.0	1707.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12131.6	0.0	12131.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	13839.3	0.0	13839.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	0.5
10°-20°	241.3	1.7
20°-30°	524.5	3.8
30°-40°	860.9	6.2
40°-50°	1582.6	11.4
50°-60°	3398.7	24.6
60°-70°	4565.0	33.0
70°-80°	2377.1	17.2
80°-90°	225.4	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°	13839.3	100.0
0°-180°	13839.3	100.0

Coefficient of Utilization



REPORT NUMBER: P637660

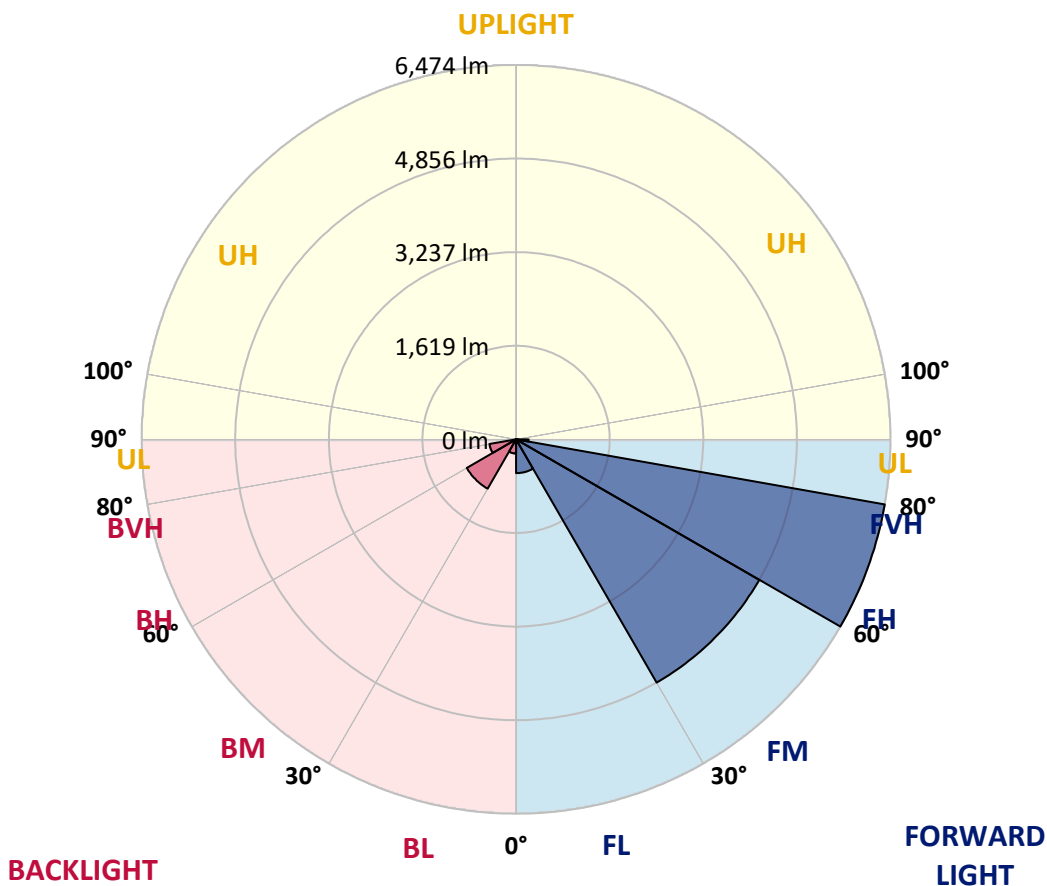
CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.6	4.2			
FM (30°-60°)	4857.4	35.1			
FH (60°-80°)	6474.1	46.8			G3/7500
FVH (80°-90°)	215.3	1.6			G2/225
BL (0°-30°)	245.0	1.8	B1/500		
BM (30°-60°)	984.8	7.1	B1/1000		
BH (60°-80°)	467.9	3.4	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





REPORT NUMBER: P637660

CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4
2.5°	733.7	736.9	740.1	751.3	759.3	765.7	767.3	762.5	751.3	740.1	724.1
5°	711.4	714.6	725.7	756.1	786.5	810.5	818.5	813.7	786.5	751.3	714.6
7.5°	709.8	716.2	743.3	807.3	872.8	922.4	935.2	924.0	872.8	802.5	727.3
10°	767.3	778.5	818.5	933.6	1053.5	1141.4	1176.5	1128.6	1047.1	919.2	796.1
12.5°	917.6	936.8	1013.5	1181.3	1366.8	1483.5	1531.4	1472.3	1344.4	1159.0	963.9
15°	1154.2	1182.9	1298.0	1549.0	1768.0	1871.9	1887.9	1854.3	1705.7	1501.1	1238.9
17.5°	1488.3	1529.8	1708.9	1964.6	2122.9	2159.7	2154.9	2119.7	2011.0	1870.3	1622.5
20°	1887.9	1937.5	2113.3	2324.3	2340.3	2297.1	2273.2	2252.4	2215.6	2191.6	1998.2
22.5°	2290.7	2351.5	2535.3	2588.1	2444.2	2319.5	2260.4	2276.4	2330.7	2449.0	2370.7
25°	2692.0	2749.5	2922.2	2779.9	2492.2	2284.3	2209.2	2247.6	2377.1	2632.8	2733.5
27.5°	3160.4	3203.5	3305.8	2911.0	2500.2	2255.6	2182.0	2241.2	2399.4	2747.9	3131.6
30°	3647.9	3673.5	3623.9	2946.2	2473.0	2212.4	2154.9	2241.2	2437.8	2824.7	3430.5
32.5°	4006.0	4010.8	3849.3	2949.4	2458.6	2177.2	2129.3	2231.6	2474.6	2888.6	3719.9
35°	4375.3	4351.3	4065.1	2997.3	2497.0	2190.0	2148.5	2258.8	2532.1	2963.7	3974.0
37.5°	4749.3	4706.2	4306.5	3075.6	2596.1	2329.1	2303.5	2397.8	2624.8	3067.6	4253.8
40°	5133.0	5073.8	4557.5	3193.9	2816.7	2802.3	2890.2	2879.0	2879.0	3200.3	4541.5
42.5°	5601.4	5532.6	4928.4	3528.0	3331.4	3652.7	3892.5	3743.8	3468.9	3505.7	4915.6
45°	6220.0	6160.9	5571.0	4167.5	4138.7	4877.2	5200.1	4906.0	4221.8	4210.6	5540.6
47.5°	7209.5	7198.3	6595.7	4909.2	5126.6	6435.8	7059.3	6493.4	5080.2	4957.1	6723.6
50°	8600.3	8566.7	7872.9	5778.8	6301.5	8366.9	9479.5	8536.3	6117.7	5828.4	8307.7
52.5°	10166.9	10202.0	9661.7	6728.4	7550.0	10515.4	12064.4	10876.6	7244.7	6936.2	10301.1
55°	11642.3	11843.8	11701.5	7839.4	8769.7	12887.6	14903.4	13443.9	8640.2	8386.1	12535.9
57.5°	12796.5	13364.0	14361.5	9453.9	10203.6	15662.7	18073.4	16227.0	10269.2	10740.8	15578.0
60°	12860.4	13611.8	15928.1	12831.7	12048.4	18043.0	21238.5	18946.2	12830.1	14738.8	17961.5
62.5°	11896.5	12702.2	14908.2	14366.3	14057.8	20068.4	22862.7	20928.4	15349.4	17080.7	17254.9
65°	10793.5	11607.2	13770.0	12625.5	13824.4	19982.1	22450.2	20974.8	15578.0	15488.5	15990.4
67.5°	9126.2	9856.7	11815.0	11175.6	12742.2	19018.1	20544.7	19652.7	14351.9	14486.2	14710.0
70°	6661.2	7364.6	9182.2	9214.1	11127.6	17280.5	17652.9	17529.9	13216.9	13359.2	12719.8
72.5°	4811.7	5404.7	6972.9	7556.4	8883.2	14491.0	14233.6	14708.4	11340.2	11898.1	10216.4
75°	3459.3	3903.7	5115.4	6573.3	7041.7	10761.5	10189.2	11391.4	9099.0	10245.2	7681.1
77.5°	1403.5	1560.2	2012.6	4428.0	4627.8	7239.9	6237.6	8274.2	6487.0	6731.6	3723.1
80°	57.5	63.9	83.1	2285.9	3173.2	4073.1	3337.8	4423.2	4284.2	2711.2	879.2
82.5°	6.4	6.4	14.4	658.6	1389.2	2247.6	1573.0	2548.1	2169.3	1149.4	399.6
85°	1.6	1.6	3.2	75.1	326.1	359.7	212.6	781.7	1008.7	470.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	14.4	16.0	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: P637660

CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4
2.5°	724.1	716.2	706.6	697.0	692.2	679.4	674.6	671.4	668.2	669.8	669.8
5°	700.2	682.6	661.8	641.0	629.8	617.0	610.7	607.5	609.1	615.4	615.4
7.5°	697.0	663.4	618.6	591.5	578.7	569.1	562.7	559.5	561.1	569.1	572.3
10°	749.7	690.6	610.7	564.3	549.9	540.3	533.9	529.1	525.9	532.3	533.9
12.5°	863.2	781.7	649.0	561.1	535.5	522.7	517.9	508.3	503.5	506.7	508.3
15°	1098.2	957.5	725.7	573.9	522.7	508.3	500.4	492.4	484.4	482.8	484.4
17.5°	1405.1	1203.7	842.4	604.3	513.1	495.6	484.4	473.2	462.0	460.4	458.8
20°	1785.6	1505.8	1005.5	652.2	505.1	484.4	468.4	452.4	438.0	433.2	433.2
22.5°	2132.5	1870.3	1214.9	711.4	494.0	468.4	449.2	430.0	414.0	406.0	404.4
25°	2556.1	2257.2	1465.9	780.1	478.0	447.6	426.8	407.6	391.6	382.1	378.9
27.5°	2982.9	2664.8	1750.4	869.6	458.8	426.8	407.6	390.0	372.5	361.3	358.1
30°	3396.9	3104.4	2070.1	981.5	444.4	406.0	390.0	372.5	356.5	338.9	334.1
32.5°	3841.3	3553.6	2428.2	1106.2	433.2	391.6	374.1	358.1	337.3	321.3	313.3
35°	4269.8	4017.2	2823.1	1227.7	422.0	378.9	359.7	343.7	321.3	303.7	292.5
37.5°	4701.4	4488.8	3235.5	1301.2	406.0	361.3	343.7	330.9	305.3	284.5	271.8
40°	5158.6	4976.3	3681.5	1270.9	391.6	342.1	332.5	318.1	289.3	265.4	249.4
42.5°	5660.5	5441.5	4135.5	1154.2	378.9	326.1	316.5	302.1	275.0	246.2	225.4
45°	6291.9	5951.5	4508.0	978.3	385.3	310.1	290.9	287.7	262.2	225.4	199.8
47.5°	7377.4	6734.8	4797.3	864.8	428.4	292.5	270.2	278.2	251.0	204.6	175.8
50°	9038.3	8032.8	5067.4	856.8	494.0	284.5	251.0	271.8	239.8	183.8	155.1
52.5°	10620.9	9351.6	5240.1	927.2	551.5	305.3	231.8	263.8	231.8	169.4	140.7
55°	12134.7	10112.5	4931.6	978.3	605.9	367.7	217.4	251.0	222.2	161.5	135.9
57.5°	13766.8	10451.4	3882.9	1082.2	644.2	420.4	220.6	231.8	209.4	156.7	134.3
60°	14254.4	10018.2	2343.5	1218.1	623.4	436.4	244.6	206.2	191.8	147.1	129.5
62.5°	13496.7	8990.3	1382.8	1109.4	605.9	412.4	279.7	190.2	174.2	134.3	119.9
65°	12363.3	7594.8	901.6	936.8	642.6	367.7	297.3	182.2	158.3	121.5	105.5
67.5°	11068.5	6117.7	631.4	553.1	593.1	330.9	251.0	180.6	142.3	102.3	86.3
70°	9322.8	4581.5	444.4	366.1	494.0	294.1	195.0	175.8	124.7	83.1	67.1
72.5°	7203.1	2867.8	330.9	236.6	351.7	239.8	155.1	148.7	100.7	68.7	51.2
75°	5312.0	1635.3	233.4	171.0	231.8	182.2	115.1	105.5	86.3	65.5	46.4
77.5°	2773.5	818.5	145.5	131.1	132.7	113.5	83.1	76.7	79.9	65.5	43.2
80°	532.3	163.1	87.9	95.9	71.9	71.9	60.7	63.9	70.3	52.8	36.8
82.5°	222.2	35.2	48.0	54.4	44.8	49.6	49.6	51.2	49.6	38.4	27.2
85°	0.0	0.0	20.8	22.4	30.4	30.4	25.6	25.6	25.6	22.4	16.0
87.5°	0.0	0.0	0.0	0.0	1.6	4.8	9.6	11.2	12.8	9.6	6.4
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: P637660

CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4
2.5°	668.2	665.0	669.8	673.0	676.2	676.2	673.0	669.8	665.0	669.8	665.0
5°	617.0	621.8	629.8	633.0	636.2	629.8	626.6	617.0	609.1	610.7	607.5
7.5°	577.1	581.9	591.5	597.9	597.9	594.7	585.1	575.5	562.7	562.7	561.1
10°	540.3	546.7	557.9	565.9	569.1	565.9	556.3	543.5	532.3	532.3	527.5
12.5°	509.9	517.9	530.7	541.9	545.1	541.9	532.3	519.5	506.7	506.7	503.5
15°	484.4	494.0	508.3	521.1	525.9	521.1	509.9	494.0	481.2	482.8	478.0
17.5°	460.4	468.4	487.6	501.9	506.7	501.9	487.6	466.8	454.0	457.2	454.0
20°	433.2	442.8	462.0	478.0	482.8	478.0	462.0	439.6	426.8	426.8	428.4
22.5°	404.4	414.0	433.2	444.4	450.8	446.0	430.0	409.2	396.4	396.4	398.0
25°	378.9	383.7	398.0	409.2	410.8	406.0	393.2	377.3	367.7	372.5	374.1
27.5°	354.9	354.9	361.3	367.7	366.1	361.3	356.5	343.7	342.1	346.9	351.7
30°	329.3	321.3	318.1	313.3	311.7	310.1	314.9	314.9	318.1	324.5	329.3
32.5°	306.9	290.9	276.6	262.2	254.2	260.6	273.4	284.5	295.7	305.3	310.1
35°	281.3	255.8	231.8	212.6	199.8	209.4	230.2	251.0	270.2	282.9	290.9
37.5°	255.8	219.0	190.2	166.3	156.7	164.7	187.0	215.8	244.6	260.6	271.8
40°	228.6	182.2	148.7	129.5	119.9	127.9	150.3	179.0	217.4	238.2	252.6
42.5°	201.4	150.3	119.9	100.7	95.9	100.7	118.3	147.1	188.6	214.2	233.4
45°	174.2	124.7	95.9	81.5	76.7	81.5	95.9	119.9	161.5	190.2	212.6
47.5°	150.3	105.5	79.9	67.1	63.9	68.7	79.9	100.7	135.9	164.7	190.2
50°	131.1	92.7	68.7	57.5	54.4	59.1	68.7	84.7	115.1	140.7	167.8
52.5°	118.3	86.3	60.7	49.6	48.0	51.2	59.1	71.9	97.5	119.9	145.5
55°	115.1	86.3	55.9	44.8	43.2	46.4	52.8	62.3	84.7	103.9	126.3
57.5°	118.3	92.7	52.8	38.4	36.8	40.0	46.4	54.4	73.5	89.5	110.3
60°	118.3	94.3	46.4	30.4	28.8	32.0	38.4	48.0	65.5	78.3	95.9
62.5°	107.1	86.3	38.4	24.0	20.8	24.0	32.0	40.0	57.5	70.3	84.7
65°	92.7	73.5	32.0	17.6	14.4	17.6	25.6	33.6	49.6	60.7	76.7
67.5°	75.1	55.9	24.0	12.8	9.6	12.8	19.2	27.2	41.6	52.8	68.7
70°	55.9	40.0	19.2	11.2	9.6	11.2	17.6	25.6	36.8	48.0	63.9
72.5°	41.6	27.2	16.0	11.2	8.0	11.2	16.0	24.0	35.2	46.4	60.7
75°	35.2	22.4	14.4	9.6	8.0	9.6	14.4	22.4	32.0	43.2	57.5
77.5°	33.6	20.8	12.8	8.0	6.4	8.0	12.8	19.2	28.8	40.0	55.9
80°	28.8	17.6	11.2	6.4	4.8	6.4	11.2	16.0	22.4	30.4	43.2
82.5°	22.4	14.4	8.0	3.2	1.6	3.2	8.0	9.6	14.4	17.6	25.6
85°	14.4	8.0	3.2	0.0	0.0	0.0	3.2	6.4	6.4	8.0	12.8
87.5°	6.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	4.8
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: P637660

CATALOG NUMBER: GWS-SA4D-730-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4	719.4
2.5°	674.6	676.2	679.4	684.2	695.4	705.0	714.6	727.3	733.7	733.7
5°	610.7	612.3	613.8	620.2	636.2	649.0	669.8	695.4	708.2	711.4
7.5°	561.1	564.3	567.5	572.3	588.3	605.9	633.0	681.0	705.0	709.8
10°	532.3	537.1	543.5	553.1	567.5	586.7	633.0	719.4	759.3	767.3
12.5°	509.9	517.9	524.3	535.5	553.1	583.5	676.2	828.1	898.4	917.6
15°	487.6	497.2	506.7	517.9	537.1	594.7	759.3	1023.1	1139.8	1154.2
17.5°	465.2	476.4	489.2	501.9	525.9	621.8	890.4	1293.2	1456.3	1488.3
20°	439.6	454.0	471.6	487.6	514.7	665.0	1072.6	1614.5	1819.2	1887.9
22.5°	412.4	430.0	450.8	471.6	501.9	717.8	1293.2	1959.8	2246.0	2290.7
25°	390.0	407.6	426.8	447.6	481.2	781.7	1560.2	2388.3	2648.8	2692.0
27.5°	369.3	386.9	404.4	423.6	460.4	864.8	1881.5	2843.8	3115.6	3160.4
30°	346.9	367.7	385.3	404.4	441.2	967.1	2252.4	3349.0	3606.4	3647.9
32.5°	327.7	348.5	366.1	385.3	426.8	1079.0	2642.4	3796.6	4006.0	4006.0
35°	311.7	334.1	346.9	372.5	415.6	1151.0	3011.7	4223.4	4381.7	4375.3
37.5°	294.1	321.3	330.9	348.5	401.2	1159.0	3358.6	4674.2	4790.9	4749.3
40°	276.6	305.3	319.7	329.3	385.3	1093.4	3739.0	5088.2	5187.3	5133.0
42.5°	260.6	282.9	303.7	314.9	375.7	978.3	4044.4	5531.0	5649.3	5601.4
45°	244.6	263.8	276.6	297.3	382.1	898.4	4306.5	6047.4	6255.2	6220.0
47.5°	228.6	244.6	252.6	284.5	425.2	861.6	4466.4	6846.7	7238.3	7209.5
50°	211.0	230.2	230.2	281.3	489.2	874.4	4605.5	8004.0	8609.9	8600.3
52.5°	193.4	214.2	211.0	305.3	538.7	933.6	4763.7	9025.5	10078.9	10166.9
55°	175.8	195.0	198.2	353.3	567.5	984.7	4151.5	9455.5	11333.8	11642.3
57.5°	156.7	167.8	206.2	390.0	557.9	1133.4	2843.8	9533.8	12134.7	12796.5
60°	135.9	145.5	233.4	382.1	527.5	1047.1	1790.4	8830.5	12021.2	12860.4
62.5°	118.3	134.3	246.2	337.3	537.1	908.0	1141.4	7526.0	10939.0	11896.5
65°	103.9	129.5	223.8	305.3	543.5	615.4	770.5	6122.5	9882.3	10793.5
67.5°	92.7	143.9	183.8	271.8	466.8	433.2	529.1	4757.3	8309.3	9126.2
70°	84.7	147.1	150.3	233.4	361.3	278.2	348.5	3201.9	5727.7	6661.2
72.5°	76.7	108.7	113.5	187.0	233.4	169.4	225.4	1832.0	4175.4	4811.7
75°	73.5	73.5	78.3	121.5	129.5	123.1	145.5	1093.4	2994.1	3459.3
77.5°	68.7	55.9	49.6	78.3	70.3	87.9	86.3	486.0	1298.0	1403.5
80°	54.4	40.0	33.6	49.6	48.0	59.1	51.2	40.0	59.1	57.5
82.5°	33.6	25.6	24.0	30.4	27.2	30.4	24.0	6.4	6.4	6.4
85°	16.0	14.4	12.8	12.8	14.4	12.8	9.6	3.2	1.6	1.6
87.5°	8.0	8.0	6.4	4.8	6.4	6.4	4.8	1.6	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)