

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: P642499

Luminaire Tested: GWS-SA6D-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20644.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

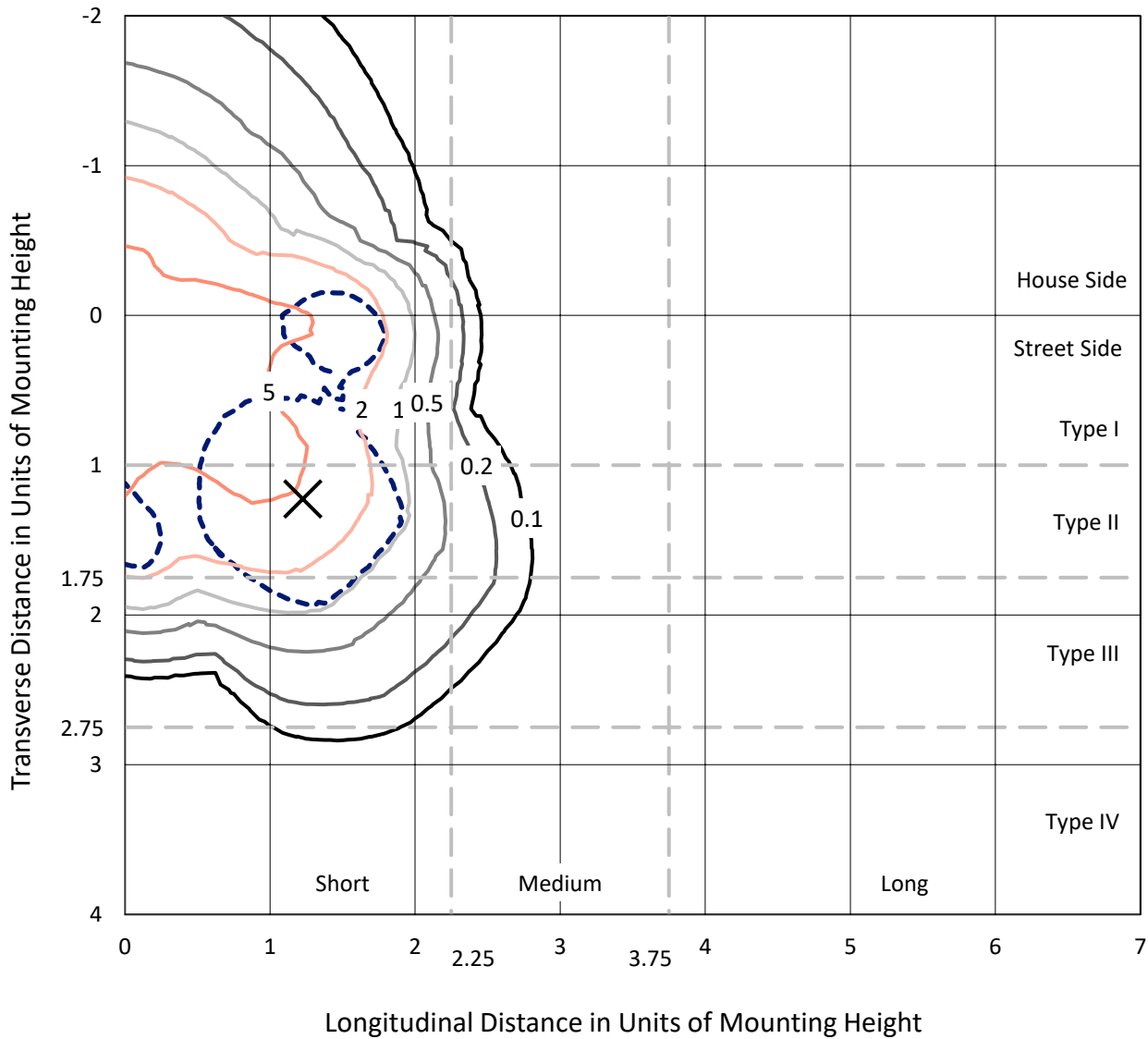
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

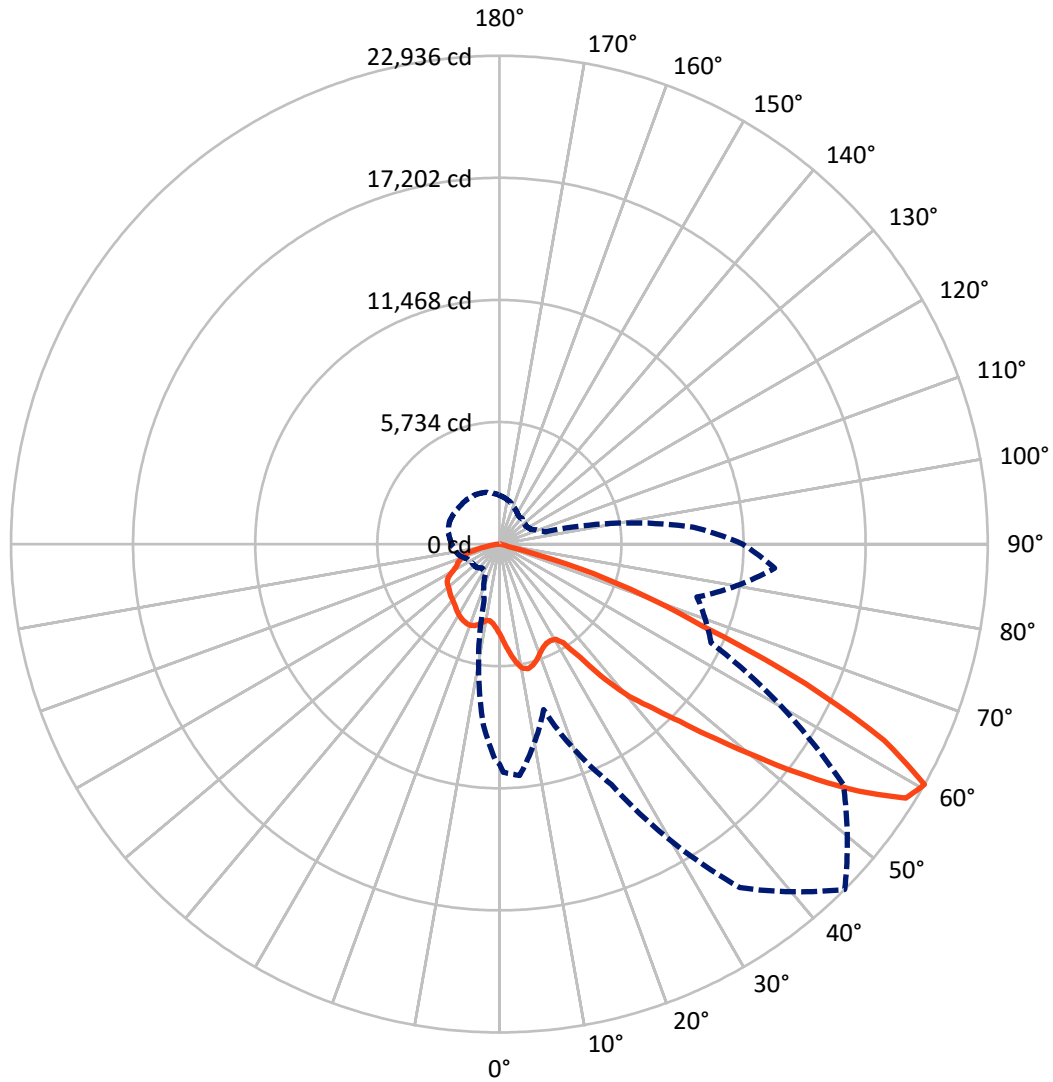
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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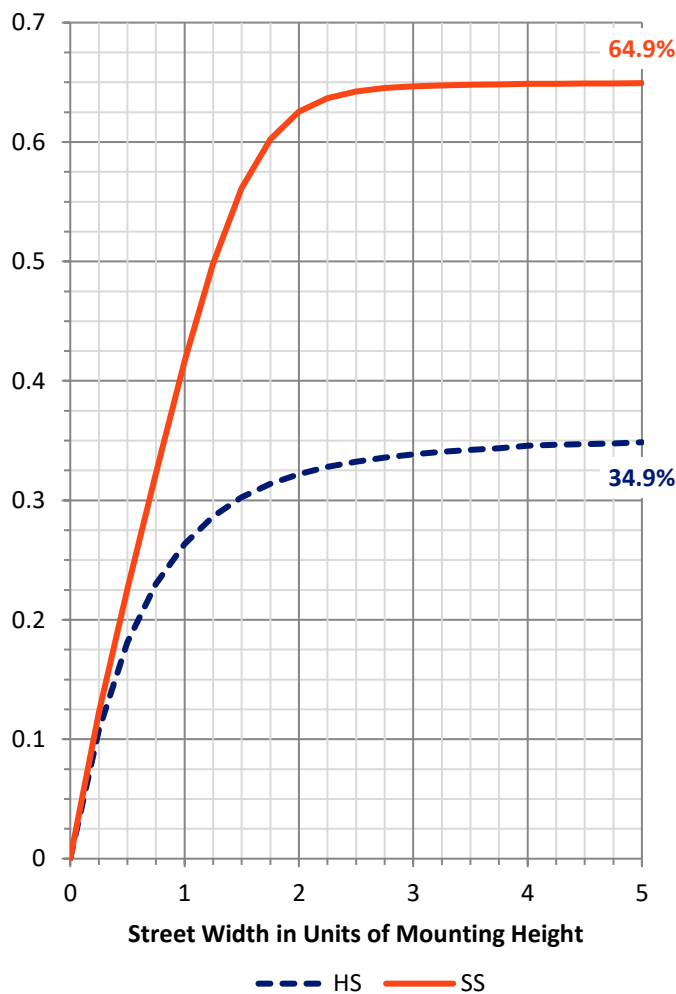
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7236.6	0.0	7236.6
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	13407.7	0.0	13407.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	20644.3	0.0	20644.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.8	2.0
10°-20°	1307.5	6.3
20°-30°	2123.9	10.3
30°-40°	2995.4	14.5
40°-50°	4139.5	20.1
50°-60°	5328.8	25.8
60°-70°	3376.4	16.4
70°-80°	866.4	4.2
80°-90°	92.6	0.4
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°	20644.3	100.0
0°-180°	20644.3	100.0

Coefficient of Utilization



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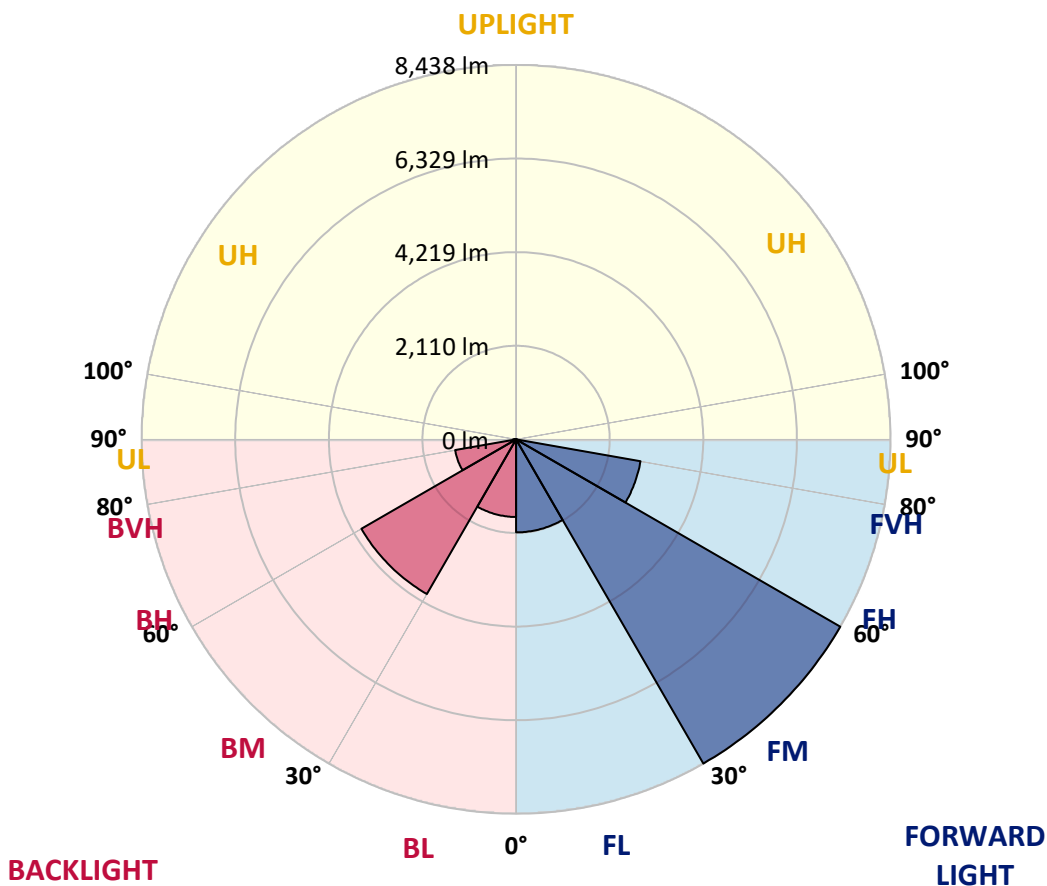
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.2	10.2			
FM (30°-60°)	8438.2	40.9			
FH (60°-80°)	2848.2	13.8			G2/5000
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	1749.1	8.5	B3/2500		
BM (30°-60°)	4025.5	19.5	B3/5000		
BH (60°-80°)	1394.6	6.8	B3/2500		G3/2500
BVH (80°-90°)	67.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4435.8	4466.0	4485.0	4520.9	4585.2	4621.2	4660.9	4617.4	4628.7	4623.0	4553.1
5°	4698.7	4734.6	4783.8	4889.8	5008.9	5075.1	5137.6	5128.1	5069.5	4971.1	4901.1
7.5°	4944.6	4986.2	5071.4	5243.5	5419.4	5521.6	5597.2	5548.0	5498.9	5343.7	5167.8
10°	5137.6	5162.1	5277.5	5508.3	5712.6	5828.0	5920.7	5909.3	5841.2	5667.2	5430.8
12.5°	5319.2	5336.2	5461.0	5691.8	5875.3	5926.4	6002.0	6026.6	6003.9	5873.4	5640.7
15°	5514.0	5546.1	5661.5	5837.4	5920.7	5867.7	5894.2	5962.3	6026.6	6026.6	5812.9
17.5°	5695.6	5724.0	5841.2	5916.9	5837.4	5697.5	5705.0	5792.0	5945.3	6106.1	5969.9
20°	5856.4	5882.8	5998.2	5926.4	5674.8	5470.5	5464.8	5570.7	5818.5	6157.1	6138.2
22.5°	6032.3	6070.1	6166.6	5933.9	5523.4	5264.3	5262.4	5372.1	5706.9	6208.2	6331.2
25°	6282.0	6340.6	6389.8	6000.1	5442.1	5130.0	5154.6	5258.6	5671.0	6291.4	6616.8
27.5°	6652.7	6700.0	6696.2	6138.2	5438.3	5075.1	5126.2	5247.3	5735.3	6439.0	6917.5
30°	7053.7	7078.3	7038.6	6331.2	5525.3	5109.2	5184.8	5328.6	5898.0	6683.0	7360.2
32.5°	7498.3	7528.5	7452.9	6620.6	5727.7	5360.8	5527.2	5597.2	6126.9	7034.8	7829.3
35°	8009.0	8067.6	7910.6	7002.7	6323.6	6278.2	6520.3	6429.5	6613.0	7451.0	8330.6
37.5°	8546.2	8548.1	8323.0	7568.3	7492.6	7570.1	8054.4	7770.7	7643.9	7914.4	8841.3
40°	9002.1	8990.7	8644.6	8330.6	8510.3	8818.6	9403.1	8968.0	8635.1	8536.7	9265.0
42.5°	9457.9	9416.3	9066.4	8814.8	9212.0	9845.7	10505.9	9972.5	9270.7	9102.3	9683.0
45°	10040.6	10027.3	9605.5	9007.8	9845.7	10995.8	11871.6	11007.2	9647.1	9431.5	10379.2
47.5°	10980.7	10916.4	10131.4	8992.6	10439.7	12528.0	13634.6	12310.5	9910.0	9439.0	11502.8
50°	11900.0	11820.5	10759.4	8990.7	11052.6	14116.9	15715.3	13893.7	10178.6	9484.4	12645.3
52.5°	12828.8	12828.8	11790.3	9204.5	11695.7	15891.2	18119.5	15866.7	10636.4	10078.4	14050.7
55°	13381.1	13528.7	12949.8	9565.8	12448.6	17979.6	20497.3	17996.6	11343.9	11150.9	15348.4
57.5°	12679.3	12955.5	12872.3	9314.2	12893.1	19513.6	22513.7	19612.0	11693.8	11277.7	15153.5
60°	10331.9	10715.9	10906.9	8043.0	12454.2	19691.4	22935.5	19717.9	10971.2	9603.6	12980.1
62.5°	6868.4	7184.3	7475.6	5746.6	10782.1	17714.7	20285.4	17720.4	9162.9	7167.2	8992.6
65°	3368.9	3603.5	3917.5	3397.3	8423.2	14801.7	15815.6	14319.3	6628.1	4012.1	4587.1
67.5°	881.5	947.7	991.2	1318.4	6034.2	10634.5	10314.8	10473.7	4258.0	1310.9	1199.3
70°	457.8	461.5	459.7	544.8	4078.3	6758.7	7108.6	6577.1	2971.7	548.6	472.9
72.5°	327.2	329.1	323.5	367.0	1969.1	3872.1	4012.1	3968.6	1556.8	325.4	323.5
75°	213.7	215.6	211.9	215.6	297.0	440.7	406.7	427.5	259.1	206.2	206.2
77.5°	126.7	128.6	126.7	130.5	126.7	126.7	117.3	117.3	111.6	111.6	113.5
80°	85.1	85.1	83.2	87.0	79.4	79.4	75.7	73.8	68.1	66.2	66.2
82.5°	51.1	53.0	51.1	51.1	47.3	47.3	43.5	41.6	35.9	35.9	34.0
85°	26.5	26.5	24.6	24.6	20.8	18.9	15.1	15.1	11.3	9.5	9.5
87.5°	3.8	3.8	1.9	1.9	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°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4534.1	4496.3	4439.6	4384.7	4333.6	4280.7	4220.1	4157.7	4104.7	4049.9	4021.5
5°	4808.4	4730.9	4583.3	4452.8	4335.5	4239.1	4135.0	4046.1	3962.9	3894.8	3860.7
7.5°	5056.2	4935.2	4712.0	4505.8	4346.9	4214.5	4070.7	3938.3	3826.7	3743.5	3711.3
10°	5285.1	5141.3	4848.1	4587.1	4401.7	4254.2	4078.3	3898.6	3751.0	3641.3	3614.8
12.5°	5470.5	5305.9	4956.0	4653.3	4433.9	4275.0	4119.9	3964.8	3819.1	3677.3	3654.6
15°	5635.0	5440.2	5037.3	4694.9	4422.5	4220.1	4089.6	4070.7	4070.7	3909.9	3864.5
17.5°	5776.9	5563.2	5103.5	4713.8	4350.7	4057.5	3978.0	4142.6	4328.0	4212.6	4110.4
20°	5939.6	5680.4	5158.4	4713.8	4218.2	3851.3	3843.7	4123.7	4397.9	4399.8	4292.0
22.5°	6104.2	5816.6	5222.7	4696.8	4036.7	3612.9	3752.9	4048.0	4292.0	4396.1	4322.3
25°	6370.9	6005.8	5324.8	4683.6	3824.8	3450.3	3671.6	3947.7	4153.9	4263.6	4216.4
27.5°	6709.5	6255.5	5479.9	4704.4	3614.8	3353.8	3584.6	3817.2	4004.5	4101.0	4066.9
30°	7087.8	6543.0	5646.4	4740.3	3463.5	3304.6	3480.5	3667.8	3834.3	3930.7	3915.6
32.5°	7570.1	6855.1	5790.2	4691.1	3378.4	3280.0	3370.8	3505.1	3665.9	3726.4	3739.7
35°	8147.1	7199.4	5899.9	4498.2	3300.8	3253.5	3251.6	3334.9	3448.4	3544.8	3554.3
37.5°	8678.6	7602.3	6020.9	4167.2	3160.8	3187.3	3111.7	3160.8	3272.5	3368.9	3406.8
40°	9204.5	8010.9	6189.3	3745.3	2977.4	3039.8	2950.9	2984.9	3073.8	3200.6	3261.1
42.5°	9715.2	8379.7	6367.1	3314.1	2793.9	2833.6	2767.4	2801.4	2894.1	3053.0	3121.1
45°	10271.3	8879.1	6505.2	2907.4	2635.0	2618.0	2565.0	2614.2	2754.2	2928.2	3009.5
47.5°	11323.1	9666.0	6596.0	2636.9	2549.9	2426.9	2366.4	2472.3	2631.2	2807.1	2905.5
50°	12607.4	10804.8	6569.5	2464.7	2476.1	2230.2	2209.4	2349.4	2519.6	2703.1	2810.9
52.5°	13625.1	11922.7	6268.7	2300.2	2332.3	2105.3	2044.8	2249.1	2411.8	2599.0	2710.6
55°	14402.6	12299.1	5345.6	2105.3	2097.8	2014.5	1887.8	2145.1	2304.0	2478.0	2599.0
57.5°	13768.9	11461.1	3962.9	1836.7	1791.3	1834.8	1711.9	1969.1	2171.5	2343.7	2451.5
60°	11427.1	9138.3	2207.5	1626.8	1498.1	1604.1	1585.2	1783.8	2027.8	2209.4	2302.1
62.5°	7757.4	6085.2	1309.0	1286.3	1214.4	1365.7	1466.0	1596.5	1836.7	1984.3	2071.3
65°	3866.4	2956.6	870.1	962.8	972.3	1123.6	1312.8	1456.5	1657.0	1808.4	1895.4
67.5°	1121.7	919.3	662.1	735.8	838.0	959.0	1110.4	1280.6	1475.4	1655.1	1757.3
70°	484.2	489.9	525.9	612.9	713.1	838.0	989.3	1155.8	1320.3	1458.4	1536.0
72.5°	342.4	355.6	395.3	484.2	578.8	698.0	849.3	1010.1	1129.3	1269.3	1350.6
75°	219.4	228.9	261.0	329.1	399.1	514.5	658.3	805.8	928.8	1029.0	1106.6
77.5°	121.1	123.0	149.4	189.2	236.4	310.2	416.1	531.5	622.3	679.1	749.1
80°	70.0	70.0	83.2	107.8	136.2	181.6	240.2	297.0	351.8	387.8	421.8
82.5°	37.8	37.8	43.5	58.6	73.8	100.3	134.3	162.7	196.7	215.6	238.3
85°	11.3	11.3	15.1	20.8	26.5	37.8	53.0	68.1	83.2	96.5	109.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
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°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4015.8	3989.4	3974.2	3955.3	3961.0	3944.0	3934.5	3940.2	3906.1	3940.2	3974.2
5°	3847.5	3809.7	3779.4	3754.8	3743.5	3720.8	3707.5	3707.5	3686.7	3720.8	3762.4
7.5°	3699.9	3669.7	3654.6	3639.4	3622.4	3601.6	3578.9	3571.3	3558.1	3594.0	3630.0
10°	3601.6	3605.4	3614.8	3635.6	3631.9	3618.6	3584.6	3565.6	3565.6	3607.3	3662.1
12.5°	3647.0	3686.7	3709.4	3747.2	3754.8	3743.5	3709.4	3694.3	3732.1	3794.5	3885.3
15°	3822.9	3849.4	3868.3	3898.6	3896.7	3887.2	3860.7	3872.1	3996.9	4118.0	4199.3
17.5°	4014.0	3983.7	3979.9	3998.8	4004.5	3993.1	3978.0	4029.1	4235.3	4348.8	4390.4
20°	4152.0	4048.0	4025.3	4032.9	4048.0	4042.3	4042.3	4125.6	4339.3	4392.3	4339.3
22.5°	4193.7	4046.1	4012.1	4014.0	4034.8	4036.7	4046.1	4133.1	4258.0	4259.9	4178.5
25°	4127.4	3985.6	3961.0	3964.8	3989.4	3987.5	3991.3	4040.4	4095.3	4072.6	4012.1
27.5°	4002.6	3879.7	3872.1	3892.9	3925.0	3908.0	3896.7	3909.9	3936.4	3908.0	3855.1
30°	3860.7	3756.7	3760.5	3800.2	3834.3	3805.9	3777.5	3785.1	3787.0	3756.7	3696.2
32.5°	3711.3	3633.7	3647.0	3688.6	3728.3	3698.1	3667.8	3664.0	3628.1	3592.1	3533.5
35°	3561.9	3531.6	3548.6	3582.7	3616.7	3592.1	3573.2	3561.9	3484.3	3431.3	3382.2
37.5°	3425.7	3448.4	3478.6	3499.4	3510.8	3508.9	3497.5	3471.1	3368.9	3306.5	3242.2
40°	3304.6	3374.6	3406.8	3416.2	3433.2	3429.5	3427.6	3389.7	3255.4	3189.2	3115.4
42.5°	3194.9	3293.3	3348.1	3357.6	3367.0	3368.9	3363.2	3308.4	3155.2	3077.6	3007.6
45°	3089.0	3217.6	3287.6	3278.1	3291.4	3291.4	3297.0	3225.2	3056.8	2977.4	2903.6
47.5°	2996.3	3147.6	3211.9	3200.6	3208.1	3213.8	3219.5	3136.3	2949.0	2873.3	2797.7
50°	2911.2	3071.9	3126.8	3130.6	3130.6	3143.8	3141.9	3060.6	2858.2	2776.9	2701.2
52.5°	2820.4	2994.4	3053.0	3077.6	3085.2	3090.9	3064.4	2969.8	2765.5	2667.1	2597.2
55°	2714.4	2914.9	2967.9	3000.1	3015.2	3011.4	2975.5	2879.0	2670.9	2572.6	2493.1
57.5°	2553.6	2744.7	2820.4	2835.5	2860.1	2845.0	2803.3	2722.0	2519.6	2421.2	2339.9
60°	2377.7	2515.8	2576.3	2589.6	2570.7	2576.3	2570.7	2493.1	2317.2	2239.6	2156.4
62.5°	2147.0	2269.9	2334.2	2351.2	2319.1	2339.9	2332.3	2235.9	2059.9	1978.6	1904.8
65°	1972.9	2107.2	2182.9	2192.4	2182.9	2192.4	2165.9	2048.6	1882.1	1798.9	1723.2
67.5°	1836.7	1974.8	2054.3	2080.7	2071.3	2069.4	2027.8	1891.6	1719.5	1628.7	1532.2
70°	1602.2	1723.2	1825.4	1889.7	1889.7	1853.8	1774.3	1647.6	1509.5	1431.9	1356.3
72.5°	1418.7	1571.9	1672.2	1738.4	1751.6	1730.8	1619.2	1484.9	1326.0	1248.4	1169.0
75°	1169.0	1318.4	1426.3	1513.3	1530.3	1507.6	1379.0	1246.6	1099.0	1023.4	943.9
77.5°	781.2	870.1	957.1	1036.6	1019.6	1034.7	947.7	847.4	756.6	699.9	663.9
80°	440.7	499.4	525.9	569.4	569.4	569.4	512.6	465.3	414.3	382.1	346.2
82.5°	249.7	287.5	298.9	334.8	344.3	346.2	308.3	278.1	245.9	228.9	204.3
85°	115.4	136.2	138.1	158.9	166.5	181.6	164.6	143.8	124.8	117.3	102.1
87.5°	3.8	11.3	15.1	28.4	37.8	43.5	47.3	47.3	39.7	35.9	30.3
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: P642499

CATALOG NUMBER: GWS-SA6D-722-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4015.8	4061.2	4114.2	4152.0	4220.1	4276.9	4335.5	4399.8	4447.1	4435.8
5°	3813.4	3889.1	3985.6	4074.5	4201.2	4329.8	4471.7	4617.4	4702.5	4698.7
7.5°	3699.9	3807.8	3925.0	4044.2	4193.7	4379.0	4596.6	4823.6	4938.9	4944.6
10°	3760.5	3875.9	3955.3	4055.6	4212.6	4445.2	4706.3	4978.7	5111.1	5137.6
12.5°	3951.5	3942.1	3936.4	4008.3	4197.4	4492.5	4812.2	5137.6	5287.0	5319.2
15°	4133.1	3938.3	3821.0	3870.2	4129.3	4522.8	4916.2	5311.6	5479.9	5514.0
17.5°	4167.2	3872.1	3654.6	3688.6	4021.5	4532.2	5016.5	5481.8	5663.4	5695.6
20°	4072.6	3787.0	3533.5	3486.2	3885.3	4507.7	5078.9	5623.7	5822.3	5856.4
22.5°	3953.4	3711.3	3442.7	3319.7	3718.9	4483.1	5148.9	5773.1	6002.0	6032.3
25°	3828.6	3614.8	3357.6	3170.3	3529.7	4467.9	5266.2	5969.9	6246.0	6282.0
27.5°	3696.2	3497.5	3283.8	3098.4	3355.7	4486.9	5432.6	6287.6	6601.6	6652.7
30°	3554.3	3380.3	3236.5	3073.8	3236.5	4503.9	5616.1	6613.0	6981.9	7053.7
32.5°	3406.8	3272.5	3187.3	3085.2	3162.7	4464.2	5776.9	6978.1	7435.8	7498.3
35°	3259.2	3162.7	3124.9	3106.0	3064.4	4318.5	5907.4	7346.9	7954.1	8009.0
37.5°	3121.1	3049.2	3037.9	3058.7	2913.0	4080.2	6058.8	7816.0	8463.0	8546.2
40°	2992.5	2926.3	2924.4	2920.6	2746.6	3754.8	6263.1	8292.7	8964.2	9002.1
42.5°	2873.3	2790.1	2805.2	2759.8	2610.4	3403.0	6456.0	8699.4	9431.5	9457.9
45°	2767.4	2657.7	2674.7	2618.0	2546.1	3034.1	6626.2	9179.9	10023.5	10040.6
47.5°	2665.3	2548.0	2500.7	2496.9	2534.7	2693.6	6792.7	10104.9	10950.4	10980.7
50°	2570.7	2443.9	2309.6	2392.9	2464.7	2438.3	7000.8	11096.1	11907.6	11900.0
52.5°	2479.9	2313.4	2122.4	2283.1	2283.1	2249.1	6942.1	11697.6	12698.2	12828.8
55°	2375.8	2103.4	1927.5	2099.7	2016.4	2078.9	5903.7	11894.3	13195.7	13381.1
57.5°	2169.7	1844.3	1691.1	1783.8	1658.9	1927.5	4240.9	10918.3	12350.2	12679.3
60°	1971.0	1653.2	1553.0	1536.0	1373.3	1571.9	2748.5	8548.1	10165.4	10331.9
62.5°	1738.4	1488.7	1403.6	1273.0	1104.7	1144.4	1664.6	5625.6	6830.5	6868.4
65°	1562.5	1348.7	1186.0	1030.9	904.2	830.4	983.6	2712.5	3414.3	3368.9
67.5°	1341.1	1155.8	1000.7	889.0	785.0	692.3	654.5	805.8	911.7	881.5
70°	1193.6	1015.8	866.3	760.4	663.9	571.3	505.1	474.8	465.3	457.8
72.5°	1029.0	873.9	718.8	616.7	525.9	440.7	380.2	344.3	334.8	327.2
75°	820.9	675.3	533.4	437.0	357.5	297.0	257.3	227.0	221.3	213.7
77.5°	542.9	433.2	317.8	259.1	211.9	179.7	153.2	134.3	130.5	126.7
80°	298.9	249.7	194.8	157.0	126.7	109.7	100.3	88.9	87.0	85.1
82.5°	177.8	149.4	111.6	88.9	73.8	66.2	60.5	54.9	53.0	51.1
85°	88.9	70.0	49.2	41.6	37.8	34.0	34.0	28.4	26.5	26.5
87.5°	22.7	18.9	11.3	9.5	9.5	9.5	7.6	5.7	5.7	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)