

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: P640134

Luminaire Tested: GWS-SA5D-730-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640134
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-SA5D-730-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21402.9 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

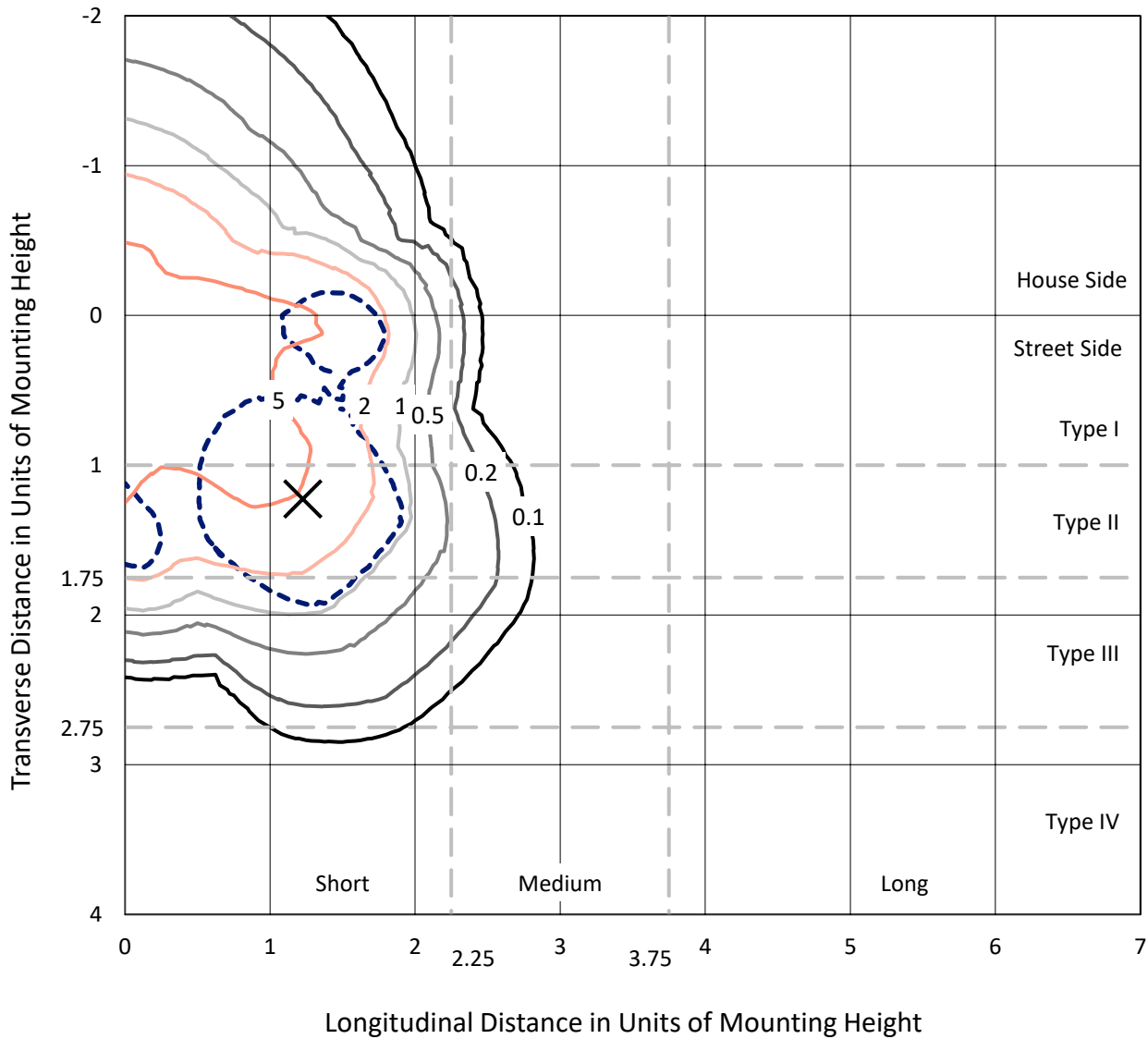
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

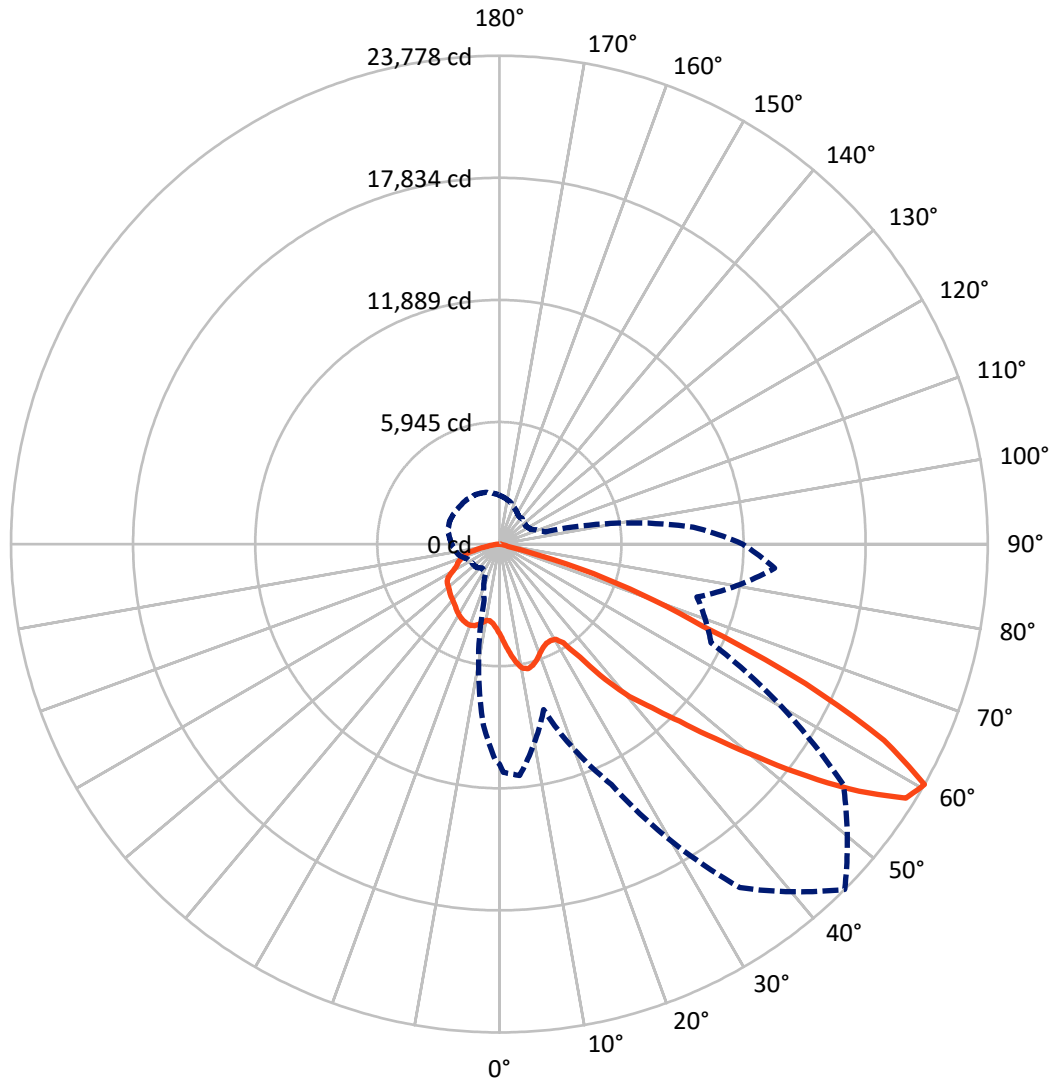
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	7502.5	0.0	7502.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	13900.4	0.0	13900.4
	% Fixture	64.9	0.0	64.9
Total	Lumens	21402.9	0.0	21402.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.0	2.0
10°-20°	1355.6	6.3
20°-30°	2202.0	10.3
30°-40°	3105.4	14.5
40°-50°	4291.6	20.1
50°-60°	5524.6	25.8
60°-70°	3500.4	16.4
70°-80°	898.2	4.2
80°-90°	96.1	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°	21402.9	100.0
0°-180°	21402.9	100.0

Coefficient of Utilization



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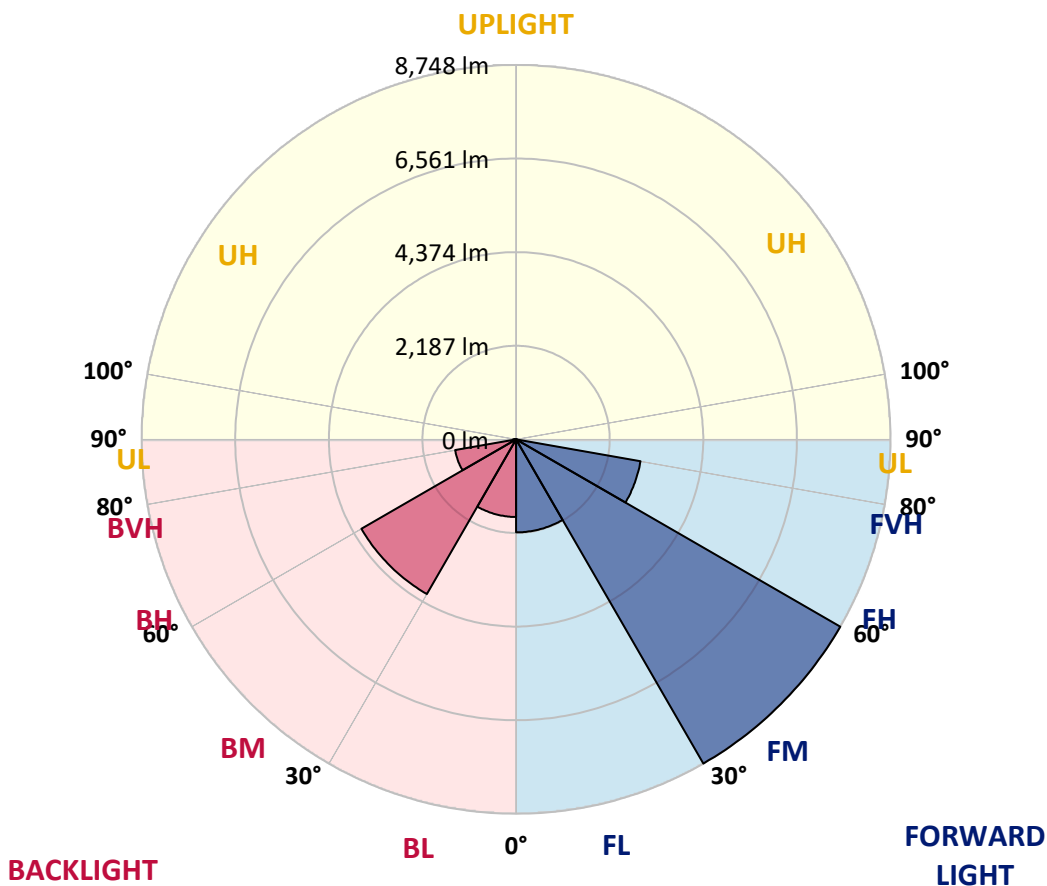
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2173.2	10.2			
FM (30°-60°)	8748.3	40.9			
FH (60°-80°)	2952.9	13.8			G2/5000
FVH (80°-90°)	26.1	0.1			G1/100
BL (0°-30°)	1813.3	8.5	B3/2500		
BM (30°-60°)	4173.4	19.5	B3/5000		
BH (60°-80°)	1445.8	6.8	B3/2500		G3/2500
BVH (80°-90°)	70.0	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°	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8
2.5°	4598.8	4630.2	4649.8	4687.0	4753.7	4791.0	4832.1	4787.0	4798.8	4792.9	4720.4
5°	4871.4	4908.6	4959.6	5069.4	5193.0	5261.6	5326.3	5316.5	5255.7	5153.8	5081.2
7.5°	5126.3	5169.5	5257.7	5436.2	5618.5	5724.4	5802.9	5751.9	5700.9	5540.1	5357.7
10°	5326.3	5351.8	5471.5	5710.7	5922.5	6042.1	6138.2	6126.5	6055.9	5875.5	5630.3
12.5°	5514.6	5532.3	5661.7	5900.9	6091.2	6144.1	6222.6	6248.1	6224.5	6089.2	5848.0
15°	5716.6	5749.9	5869.6	6052.0	6138.2	6083.3	6110.8	6181.4	6248.1	6248.1	6026.5
17.5°	5904.9	5934.3	6055.9	6134.3	6052.0	5906.8	5914.7	6004.9	6163.7	6330.4	6189.2
20°	6071.6	6099.0	6218.6	6144.1	5883.3	5671.5	5665.6	5775.4	6032.3	6383.4	6363.8
22.5°	6253.9	6293.2	6393.2	6152.0	5726.4	5457.7	5455.8	5569.5	5916.6	6436.3	6563.8
25°	6512.8	6573.6	6624.6	6220.6	5642.1	5318.5	5344.0	5451.9	5879.4	6522.6	6859.9
27.5°	6897.2	6946.2	6942.3	6363.8	5638.2	5261.6	5314.6	5440.1	5946.1	6675.6	7171.7
30°	7312.9	7338.4	7297.2	6563.8	5728.4	5296.9	5375.4	5524.4	6114.7	6928.6	7630.6
32.5°	7773.8	7805.2	7726.7	6863.8	5938.2	5557.8	5730.3	5802.9	6352.0	7293.3	8117.0
35°	8303.3	8364.1	8201.3	7260.0	6556.0	6508.9	6759.9	6665.8	6856.0	7724.8	8636.7
37.5°	8860.2	8862.2	8628.8	7846.4	7767.9	7848.3	8350.4	8056.2	7924.8	8205.2	9166.2
40°	9332.9	9321.1	8962.2	8636.7	8823.0	9142.6	9748.6	9297.6	8952.4	8850.4	9605.5
42.5°	9805.5	9762.3	9399.5	9138.7	9550.6	10207.5	10891.9	10338.9	9611.3	9436.8	10038.9
45°	10409.5	10395.8	9958.5	9338.8	10207.5	11399.9	12307.9	11411.6	10001.6	9778.0	10760.5
47.5°	11384.2	11317.5	10503.6	9323.1	10823.3	12988.4	14135.6	12762.8	10274.2	9785.9	11925.4
50°	12337.3	12254.9	11154.7	9321.1	11458.7	14635.7	16292.8	14404.3	10552.7	9832.9	13109.9
52.5°	13300.2	13300.2	12223.5	9542.7	12125.5	16475.2	18785.4	16449.7	11027.3	10448.7	14567.0
55°	13872.8	14025.8	13425.7	9917.3	12906.0	18640.2	21250.5	18657.9	11760.7	11560.7	15912.4
57.5°	13145.2	13431.6	13345.3	9656.4	13366.8	20230.7	23341.0	20332.7	12123.5	11692.1	15710.4
60°	10711.5	11109.6	11307.7	8338.6	12911.9	20415.0	23778.3	20442.5	11374.4	9956.5	13457.1
62.5°	7120.7	7448.3	7750.3	5957.8	11178.3	18365.7	21030.8	18371.6	9499.6	7430.6	9323.1
65°	3492.7	3735.9	4061.4	3522.1	8732.8	15345.6	16396.7	14845.5	6871.7	4159.5	4755.7
67.5°	913.9	982.5	1027.6	1366.9	6255.9	11025.3	10693.9	10858.6	4414.4	1359.0	1243.3
70°	474.6	478.5	476.5	564.8	4228.1	7007.0	7369.8	6818.7	3080.9	568.7	490.3
72.5°	339.3	341.2	335.3	380.5	2041.5	4014.4	4159.5	4114.4	1614.0	337.3	335.3
75°	221.6	223.6	219.6	223.6	307.9	456.9	421.6	443.2	268.7	213.8	213.8
77.5°	131.4	133.4	131.4	135.3	131.4	131.4	121.6	121.6	115.7	115.7	117.7
80°	88.2	88.2	86.3	90.2	82.4	82.4	78.4	76.5	70.6	68.6	68.6
82.5°	52.9	54.9	52.9	52.9	49.0	49.0	45.1	43.1	37.3	37.3	35.3
85°	27.5	27.5	25.5	25.5	21.6	19.6	15.7	15.7	11.8	9.8	9.8
87.5°	3.9	3.9	2.0	2.0	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°	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8
2.5°	4700.8	4661.5	4602.7	4545.8	4492.9	4438.0	4375.2	4310.5	4255.6	4198.7	4169.3
5°	4985.1	4904.7	4751.7	4616.4	4494.8	4394.8	4287.0	4194.8	4108.5	4037.9	4002.6
7.5°	5242.0	5116.5	4885.1	4671.3	4506.6	4369.3	4220.3	4083.0	3967.3	3881.0	3847.7
10°	5479.3	5330.3	5026.3	4755.7	4563.5	4410.5	4228.1	4041.8	3888.9	3775.1	3747.7
12.5°	5671.5	5500.9	5138.1	4824.3	4596.8	4432.1	4271.3	4110.5	3959.5	3812.4	3788.8
15°	5842.1	5640.1	5222.4	4867.4	4585.0	4375.2	4239.9	4220.3	4220.3	4053.6	4006.5
17.5°	5989.2	5767.6	5291.0	4887.1	4510.5	4206.6	4124.2	4294.8	4487.0	4367.4	4261.5
20°	6157.8	5889.2	5347.9	4887.1	4373.2	3992.8	3985.0	4275.2	4559.6	4561.5	4449.7
22.5°	6328.5	6030.4	5414.6	4869.4	4185.0	3745.7	3890.8	4196.8	4449.7	4557.6	4481.1
25°	6605.0	6226.5	5520.5	4855.7	3965.3	3577.0	3806.5	4092.8	4306.6	4420.3	4371.3
27.5°	6956.0	6485.4	5681.3	4877.3	3747.7	3477.0	3716.3	3957.5	4151.6	4251.7	4216.4
30°	7348.2	6783.4	5853.9	4914.5	3590.8	3426.0	3608.4	3802.6	3975.1	4075.2	4059.5
32.5°	7848.3	7107.0	6002.9	4863.5	3502.5	3400.5	3494.7	3633.9	3800.6	3863.4	3877.1
35°	8446.5	7463.9	6116.7	4663.5	3422.1	3373.1	3371.1	3457.4	3575.1	3675.1	3684.9
37.5°	8997.5	7881.7	6242.2	4320.3	3277.0	3304.5	3226.0	3277.0	3392.7	3492.7	3531.9
40°	9542.7	8305.3	6416.7	3883.0	3086.8	3151.5	3059.3	3094.6	3186.8	3318.2	3380.9
42.5°	10072.2	8687.7	6601.1	3435.8	2896.5	2937.7	2869.1	2904.4	3000.5	3165.2	3235.8
45°	10648.8	9205.4	6744.2	3014.2	2731.8	2714.2	2659.2	2710.2	2855.4	3035.8	3120.1
47.5°	11739.1	10021.2	6838.4	2733.8	2643.6	2516.1	2453.3	2563.2	2727.9	2910.3	3012.2
50°	13070.7	11201.8	6810.9	2555.3	2567.1	2312.1	2290.6	2435.7	2612.2	2802.4	2914.2
52.5°	14125.8	12360.8	6499.1	2384.7	2418.0	2182.7	2119.9	2331.7	2500.4	2694.5	2810.3
55°	14931.8	12751.1	5542.1	2182.7	2174.9	2088.6	1957.2	2223.9	2388.6	2569.0	2694.5
57.5°	14274.8	11882.3	4108.5	1904.2	1857.2	1902.3	1774.8	2041.5	2251.3	2429.8	2541.6
60°	11847.0	9474.1	2288.6	1686.5	1553.2	1663.0	1643.4	1849.3	2102.3	2290.6	2386.7
62.5°	8042.5	6308.9	1357.1	1333.5	1259.0	1415.9	1519.9	1655.2	1904.2	2057.2	2147.4
65°	4008.5	3065.2	902.1	998.2	1008.0	1164.9	1361.0	1510.0	1717.9	1874.8	1965.0
67.5°	1162.9	953.1	686.4	762.9	868.8	994.3	1151.2	1327.7	1529.7	1716.0	1821.9
70°	502.0	507.9	545.2	635.4	739.3	868.8	1025.7	1198.2	1368.8	1512.0	1592.4
72.5°	355.0	368.7	409.9	502.0	600.1	723.6	880.5	1047.2	1170.8	1315.9	1400.2
75°	227.5	237.3	270.6	341.2	413.8	533.4	682.5	835.4	962.9	1066.8	1147.2
77.5°	125.5	127.5	154.9	196.1	245.1	321.6	431.4	551.1	645.2	704.0	776.6
80°	72.6	72.6	86.3	111.8	141.2	188.3	249.1	307.9	364.8	402.0	437.3
82.5°	39.2	39.2	45.1	60.8	76.5	103.9	139.2	168.7	204.0	223.6	247.1
85°	11.8	11.8	15.7	21.6	27.5	39.2	54.9	70.6	86.3	100.0	113.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
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°	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8
2.5°	4163.4	4136.0	4120.3	4100.7	4106.5	4088.9	4079.1	4085.0	4049.7	4085.0	4120.3
5°	3988.9	3949.7	3918.3	3892.8	3881.0	3857.5	3843.8	3843.8	3822.2	3857.5	3900.6
7.5°	3835.9	3804.5	3788.8	3773.2	3755.5	3733.9	3710.4	3702.6	3688.8	3726.1	3763.3
10°	3733.9	3737.9	3747.7	3769.2	3765.3	3751.6	3716.3	3696.7	3696.7	3739.8	3796.7
12.5°	3781.0	3822.2	3845.7	3884.9	3892.8	3881.0	3845.7	3830.0	3869.2	3934.0	4028.1
15°	3963.4	3990.8	4010.4	4041.8	4039.9	4030.1	4002.6	4014.4	4143.8	4269.3	4353.6
17.5°	4161.5	4130.1	4126.2	4145.8	4151.6	4139.9	4124.2	4177.1	4390.9	4508.6	4551.7
20°	4304.6	4196.8	4173.2	4181.1	4196.8	4190.9	4190.9	4277.2	4498.8	4553.7	4498.8
22.5°	4347.8	4194.8	4159.5	4161.5	4183.0	4185.0	4194.8	4285.0	4414.4	4416.4	4332.1
25°	4279.1	4132.0	4106.5	4110.5	4136.0	4134.0	4137.9	4188.9	4245.8	4222.2	4159.5
27.5°	4149.7	4022.2	4014.4	4035.9	4069.3	4051.6	4039.9	4053.6	4081.0	4051.6	3996.7
30°	4002.6	3894.7	3898.7	3939.8	3975.1	3945.7	3916.3	3924.2	3926.1	3894.7	3832.0
32.5°	3847.7	3767.3	3781.0	3824.1	3865.3	3833.9	3802.6	3798.6	3761.4	3724.1	3663.3
35°	3692.7	3661.4	3679.0	3714.3	3749.6	3724.1	3704.5	3692.7	3612.3	3557.4	3506.4
37.5°	3551.5	3575.1	3606.5	3628.0	3639.8	3637.8	3626.1	3598.6	3492.7	3428.0	3361.3
40°	3426.0	3498.6	3531.9	3541.7	3559.4	3555.5	3553.5	3514.3	3375.1	3306.4	3229.9
42.5°	3312.3	3414.3	3471.1	3480.9	3490.8	3492.7	3486.8	3430.0	3271.1	3190.7	3118.1
45°	3202.5	3335.8	3408.4	3398.6	3412.3	3412.3	3418.2	3343.7	3169.1	3086.8	3010.3
47.5°	3106.4	3263.3	3329.9	3318.2	3326.0	3331.9	3337.8	3251.5	3057.4	2978.9	2900.5
50°	3018.1	3184.8	3241.7	3245.6	3245.6	3259.3	3257.4	3173.1	2963.2	2878.9	2800.4
52.5°	2924.0	3104.4	3165.2	3190.7	3198.6	3204.4	3177.0	3078.9	2867.1	2765.1	2692.6
55°	2814.2	3022.1	3077.0	3110.3	3126.0	3122.1	3084.8	2984.8	2769.1	2667.1	2584.7
57.5°	2647.5	2845.6	2924.0	2939.7	2965.2	2949.5	2906.3	2822.0	2612.2	2510.2	2425.9
60°	2465.1	2608.3	2671.0	2684.7	2665.1	2671.0	2665.1	2584.7	2402.3	2321.9	2235.7
62.5°	2225.8	2353.3	2420.0	2437.6	2404.3	2425.9	2418.0	2318.0	2135.6	2051.3	1974.8
65°	2045.4	2184.7	2263.1	2272.9	2263.1	2272.9	2245.5	2123.9	1951.3	1865.0	1786.6
67.5°	1904.2	2047.4	2129.8	2157.2	2147.4	2145.4	2102.3	1961.1	1782.6	1688.5	1588.5
70°	1661.1	1786.6	1892.5	1959.1	1959.1	1921.9	1839.5	1708.1	1565.0	1484.6	1406.1
72.5°	1470.8	1629.7	1733.6	1802.2	1816.0	1794.4	1678.7	1539.5	1374.7	1294.3	1212.0
75°	1212.0	1366.9	1478.7	1568.9	1586.5	1563.0	1429.6	1292.4	1139.4	1061.0	978.6
77.5°	809.9	902.1	992.3	1074.7	1057.0	1072.7	982.5	878.6	784.4	725.6	688.3
80°	456.9	517.7	545.2	590.3	590.3	590.3	531.5	482.4	429.5	396.1	358.9
82.5°	258.9	298.1	309.9	347.1	356.9	358.9	319.7	288.3	254.9	237.3	211.8
85°	119.6	141.2	143.2	164.7	172.6	188.3	170.6	149.0	129.4	121.6	105.9
87.5°	3.9	11.8	15.7	29.4	39.2	45.1	49.0	49.0	41.2	37.3	31.4
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: P640134

CATALOG NUMBER: GWS-SA5D-730-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8	4396.8
2.5°	4163.4	4210.5	4265.4	4304.6	4375.2	4434.0	4494.8	4561.5	4610.5	4598.8
5°	3953.6	4032.0	4132.0	4224.2	4355.6	4489.0	4636.0	4787.0	4875.3	4871.4
7.5°	3835.9	3947.7	4069.3	4192.8	4347.8	4539.9	4765.5	5000.8	5120.4	5126.3
10°	3898.7	4018.3	4100.7	4204.6	4367.4	4608.6	4879.2	5161.6	5298.9	5326.3
12.5°	4096.7	4086.9	4081.0	4155.6	4351.7	4657.6	4989.0	5326.3	5481.3	5514.6
15°	4285.0	4083.0	3961.4	4012.4	4281.1	4689.0	5096.9	5506.8	5681.3	5716.6
17.5°	4320.3	4014.4	3788.8	3824.1	4169.3	4698.8	5200.8	5683.3	5871.5	5904.9
20°	4222.2	3926.1	3663.3	3614.3	4028.1	4673.3	5265.5	5830.3	6036.3	6071.6
22.5°	4098.7	3847.7	3569.2	3441.7	3855.5	4647.8	5338.1	5985.3	6222.6	6253.9
25°	3969.3	3747.7	3480.9	3286.8	3659.4	4632.1	5459.7	6189.2	6475.5	6512.8
27.5°	3832.0	3626.1	3404.5	3212.3	3479.0	4651.7	5632.3	6518.7	6844.2	6897.2
30°	3684.9	3504.5	3355.4	3186.8	3355.4	4669.4	5822.5	6856.0	7238.4	7312.9
32.5°	3531.9	3392.7	3304.5	3198.6	3279.0	4628.2	5989.2	7234.5	7709.1	7773.8
35°	3379.0	3279.0	3239.7	3220.1	3177.0	4477.2	6124.5	7616.9	8246.4	8303.3
37.5°	3235.8	3161.3	3149.5	3171.1	3020.1	4230.1	6281.4	8103.3	8774.0	8860.2
40°	3102.5	3033.8	3031.9	3027.9	2847.5	3892.8	6493.2	8597.5	9293.6	9332.9
42.5°	2978.9	2892.6	2908.3	2861.2	2706.3	3528.0	6693.2	9019.1	9778.0	9805.5
45°	2869.1	2755.3	2773.0	2714.2	2639.6	3145.6	6869.7	9517.2	10391.9	10409.5
47.5°	2763.2	2641.6	2592.6	2588.7	2627.9	2792.6	7042.3	10476.2	11352.8	11384.2
50°	2665.1	2533.7	2394.5	2480.8	2555.3	2527.9	7258.0	11503.8	12345.1	12337.3
52.5°	2571.0	2398.4	2200.4	2367.0	2367.0	2331.7	7197.2	12127.4	13164.9	13300.2
55°	2463.1	2180.7	1998.4	2176.8	2090.5	2155.2	6120.6	12331.4	13680.6	13872.8
57.5°	2249.4	1912.1	1753.2	1849.3	1719.9	1998.4	4396.8	11319.5	12804.0	13145.2
60°	2043.5	1714.0	1610.1	1592.4	1423.8	1629.7	2849.5	8862.2	10538.9	10711.5
62.5°	1802.2	1543.4	1455.1	1319.8	1145.3	1186.5	1725.8	5832.3	7081.5	7120.7
65°	1619.9	1398.3	1229.6	1068.8	937.4	860.9	1019.8	2812.2	3539.8	3492.7
67.5°	1390.4	1198.2	1037.4	921.7	813.9	717.8	678.5	835.4	945.2	913.9
70°	1237.5	1053.1	898.2	788.4	688.3	592.3	523.6	492.2	482.4	474.6
72.5°	1066.8	906.0	745.2	639.3	545.2	456.9	394.2	356.9	347.1	339.3
75°	851.1	700.1	553.0	453.0	370.6	307.9	266.7	235.3	229.4	221.6
77.5°	562.8	449.1	329.5	268.7	219.6	186.3	158.8	139.2	135.3	131.4
80°	309.9	258.9	202.0	162.8	131.4	113.7	103.9	92.2	90.2	88.2
82.5°	184.3	154.9	115.7	92.2	76.5	68.6	62.8	56.9	54.9	52.9
85°	92.2	72.6	51.0	43.1	39.2	35.3	35.3	29.4	27.5	27.5
87.5°	23.5	19.6	11.8	9.8	9.8	9.8	7.8	5.9	5.9	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)