

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: P643704

Luminaire Tested: GWS-SA6F-740-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26687.7 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

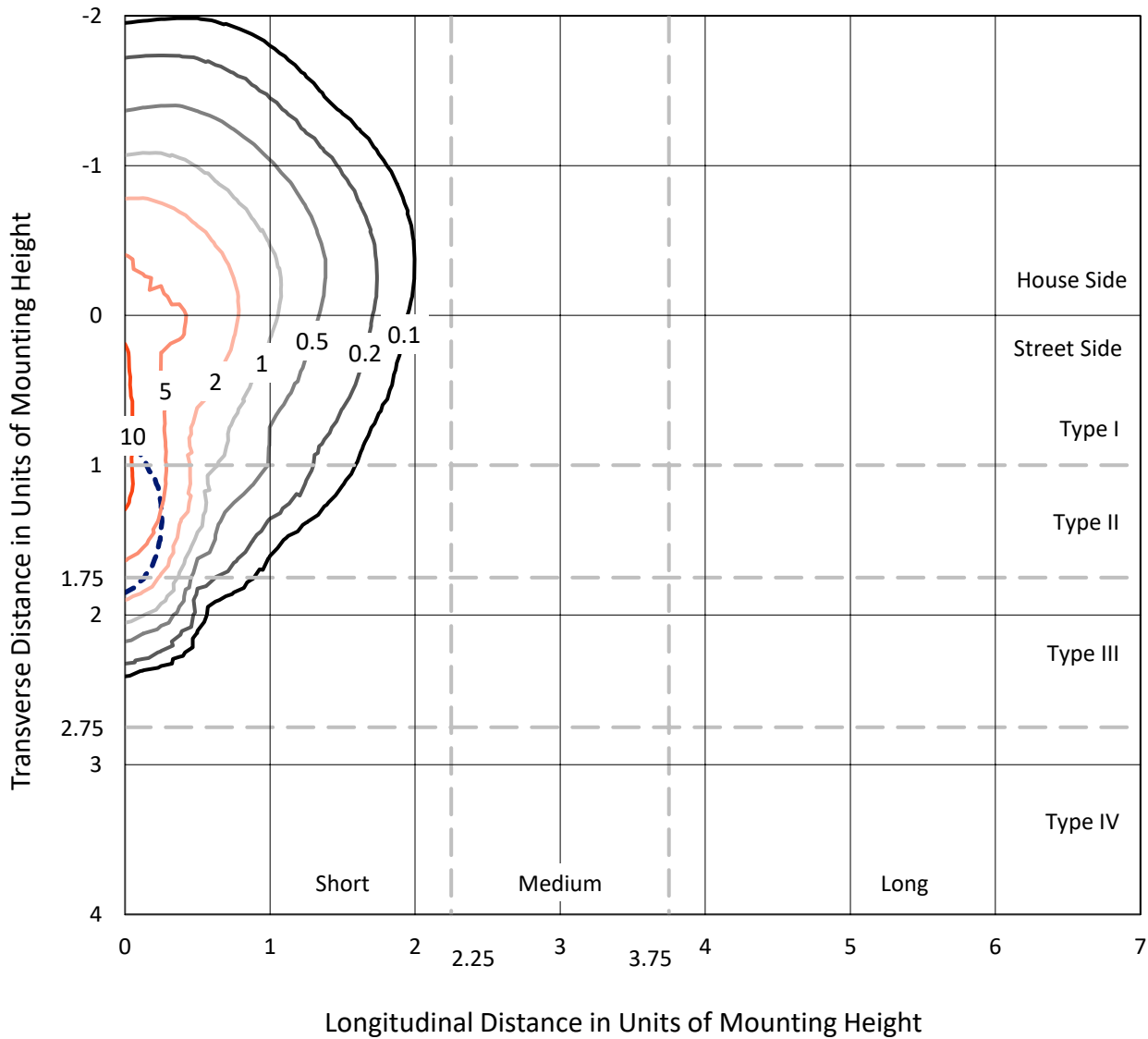
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

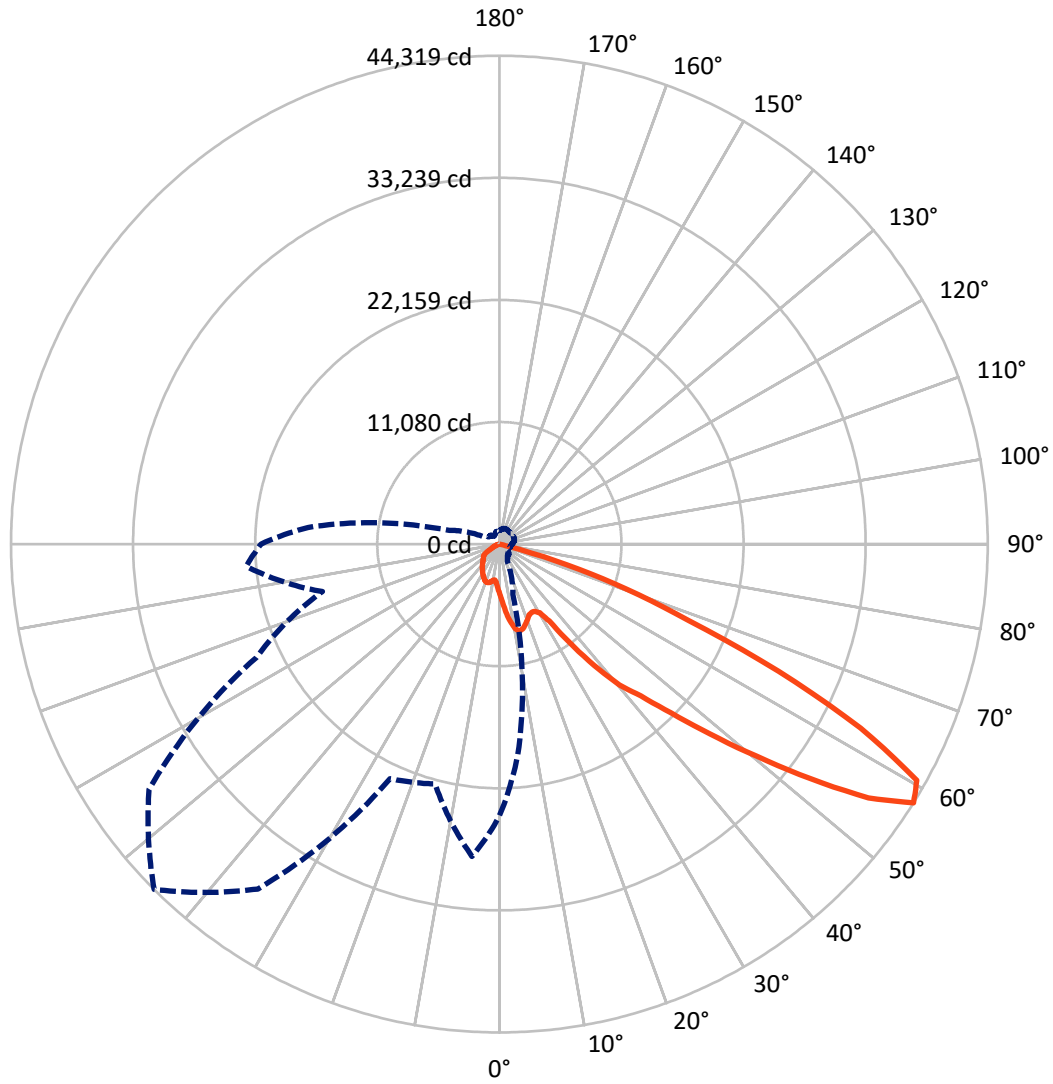
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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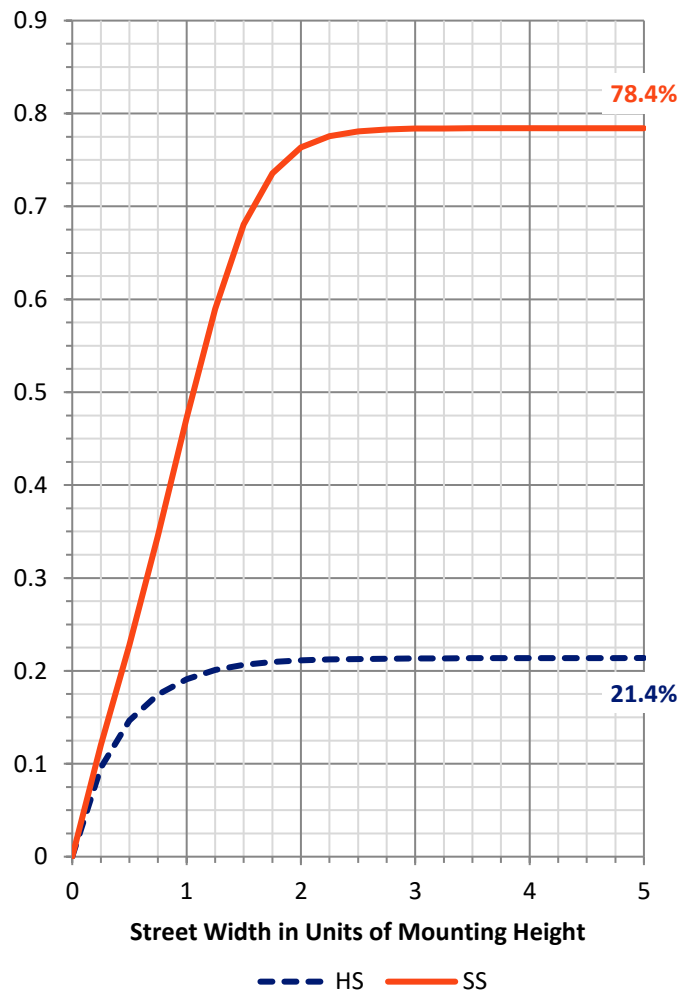
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5749.4	0.0	5749.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20938.3	0.0	20938.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	26687.7	0.0	26687.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	1.7
10°-20°	1474.8	5.5
20°-30°	2393.4	9.0
30°-40°	3673.3	13.8
40°-50°	5866.5	22.0
50°-60°	8214.3	30.8
60°-70°	4211.7	15.8
70°-80°	405.5	1.5
80°-90°	0.0	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°	26687.7	100.0
0°-180°	26687.7	100.0

Coefficient of Utilization



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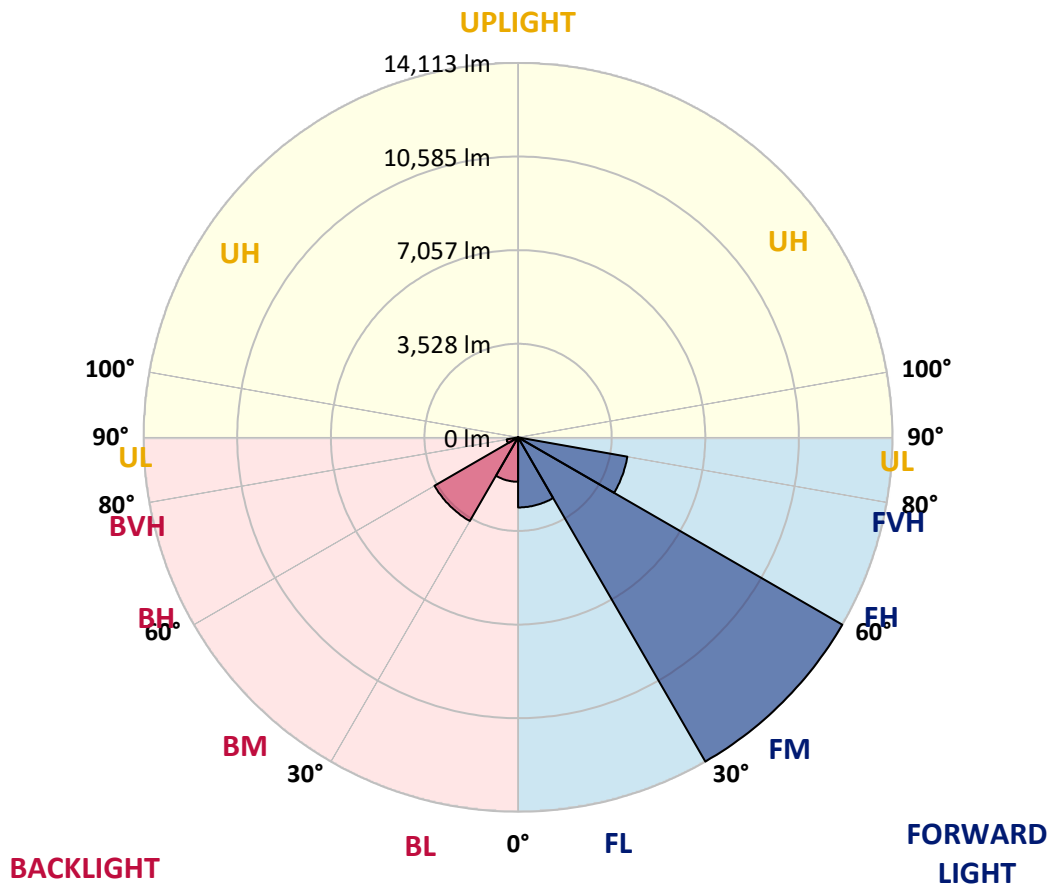
CATALOG NUMBER: GWS-SA6F-740-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.3	9.9			
FM (30°-60°)	14113.1	52.9			
FH (60°-80°)	4182.9	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1674.1	6.3	B3/2500		
BM (30°-60°)	3641.1	13.6	B3/5000		
BH (60°-80°)	434.2	1.6	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°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	5037.7	5027.0	4991.3	4870.0	4795.1	4677.3	4591.7	4481.1	4359.8	4284.9	4210.0
5°	5572.9	5544.3	5448.0	5169.7	4955.6	4723.7	4538.2	4334.8	4117.2	3974.5	3842.5
7.5°	6086.6	6043.8	5915.4	5444.4	5119.7	4787.9	4523.9	4227.8	3921.0	3706.9	3542.8
10°	6589.7	6493.3	6290.0	5712.0	5273.2	4873.6	4563.2	4224.2	3863.9	3592.7	3410.8
12.5°	7003.5	6932.2	6653.9	5965.3	5401.6	4891.4	4509.7	4195.7	3953.1	3771.1	3603.4
15°	7360.3	7281.8	7017.8	6193.6	5512.2	4820.1	4284.9	4010.2	4049.4	4120.8	3978.1
17.5°	7688.5	7606.5	7321.1	6382.7	5555.0	4645.2	3970.9	3838.9	4056.6	4324.1	4270.6
20°	8027.5	7934.7	7585.1	6536.2	5540.7	4370.5	3653.4	3692.6	3999.5	4306.3	4334.8
22.5°	8423.5	8327.2	7920.4	6732.4	5530.0	4042.3	3378.7	3564.2	3892.4	4152.9	4202.8
25°	8948.0	8833.8	8387.8	7021.4	5558.6	3742.6	3182.5	3439.3	3710.5	3946.0	3974.5
27.5°	9640.1	9493.8	8926.6	7378.1	5619.2	3507.1	3096.8	3268.1	3478.6	3689.1	3714.0
30°	10542.8	10357.2	9543.8	7688.5	5590.7	3343.0	3039.7	3096.8	3221.7	3392.9	3396.5
32.5°	11598.8	11345.5	10235.9	7956.1	5344.5	3221.7	2961.2	2922.0	2950.5	3082.6	3107.5
35°	12840.4	12512.2	10999.4	8209.4	4895.0	2986.2	2818.5	2686.5	2675.8	2740.0	2800.7
37.5°	14263.9	13871.5	11962.7	8534.1	4363.4	2740.0	2608.0	2476.0	2418.9	2451.1	2543.8
40°	15576.9	15141.6	12968.8	8926.6	3821.1	2518.8	2361.9	2226.3	2158.5	2169.2	2283.4
42.5°	17118.2	16668.6	14199.7	9440.3	3371.5	2369.0	2105.0	1965.8	1876.6	1926.6	2058.6
45°	19458.6	18948.4	15994.3	9886.3	3014.8	2333.3	1880.2	1684.0	1641.2	1726.8	1883.8
47.5°	22655.3	22031.0	18459.6	10157.4	2711.5	2365.4	1723.2	1455.7	1466.4	1562.7	1719.7
50°	25827.1	25152.8	21310.3	9800.7	2461.8	2301.2	1644.7	1277.3	1345.0	1430.7	1573.4
52.5°	28007.0	27129.3	22698.2	8769.6	2233.4	2058.6	1637.6	1109.6	1238.0	1266.6	1387.9
55°	28092.6	27011.6	21988.2	6914.3	1923.0	1737.5	1562.7	970.4	1120.3	1131.0	1234.4
57.5°	24624.7	23647.2	19216.0	4748.7	1709.0	1273.7	1245.2	849.1	920.5	1009.7	1073.9
60°	18734.4	17903.1	14371.0	2176.3	1298.7	809.9	852.7	731.4	688.6	820.6	884.8
62.5°	11473.9	10942.4	8619.7	963.3	827.7	431.7	517.3	581.5	517.3	567.3	620.8
65°	4556.0	4320.6	3271.6	410.3	338.9	217.6	235.5	338.9	363.9	399.6	449.5
67.5°	792.0	749.2	549.4	182.0	139.1	132.0	114.2	157.0	221.2	246.2	285.4
70°	103.5	99.9	89.2	74.9	71.4	64.2	49.9	99.9	149.8	157.0	182.0
72.5°	25.0	21.4	21.4	17.8	21.4	7.1	7.1	53.5	107.0	110.6	128.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	67.8	74.9	89.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	4149.3	4078.0	4053.0	4017.3	3970.9	3985.2	3921.0	3899.6	3931.7	3974.5	3963.8
5°	3771.1	3692.6	3639.1	3557.1	3542.8	3510.7	3489.3	3460.7	3496.4	3546.4	3557.1
7.5°	3471.4	3403.7	3350.1	3325.2	3307.3	3293.1	3250.2	3228.8	3228.8	3250.2	3268.1
10°	3343.0	3293.1	3282.3	3289.5	3318.0	3314.5	3275.2	3246.7	3211.0	3193.2	3214.6
12.5°	3521.4	3439.3	3425.1	3428.6	3464.3	3460.7	3417.9	3382.2	3375.1	3382.2	3450.0
15°	3824.6	3699.8	3607.0	3589.2	3607.0	3599.9	3567.8	3546.4	3557.1	3660.5	3774.7
17.5°	4095.8	3903.1	3735.5	3671.2	3667.7	3657.0	3624.9	3617.7	3671.2	3863.9	4031.6
20°	4174.3	3985.2	3746.2	3664.1	3646.3	3635.6	3599.9	3610.6	3678.4	3910.3	4053.0
22.5°	4070.8	3888.9	3639.1	3557.1	3542.8	3539.2	3503.6	3517.8	3574.9	3778.3	3896.0
25°	3874.6	3721.2	3460.7	3389.4	3389.4	3382.2	3350.1	3357.3	3392.9	3571.3	3685.5
27.5°	3635.6	3489.3	3271.6	3200.3	3211.0	3221.7	3182.5	3171.7	3200.3	3368.0	3435.8
30°	3360.8	3257.4	3086.1	3021.9	3018.3	3061.1	3007.6	2993.4	3032.6	3164.6	3178.9
32.5°	3093.3	3043.3	2922.0	2872.1	2875.6	2882.8	2854.2	2854.2	2889.9	2961.2	2957.7
35°	2832.8	2800.7	2779.3	2743.6	2740.0	2725.8	2725.8	2732.9	2772.2	2797.1	2750.8
37.5°	2583.1	2615.2	2640.1	2604.5	2575.9	2575.9	2575.9	2608.0	2643.7	2633.0	2554.5
40°	2361.9	2429.7	2508.1	2468.9	2401.1	2397.5	2411.8	2465.3	2518.8	2454.6	2383.3
42.5°	2172.8	2258.4	2369.0	2347.6	2272.7	2262.0	2272.7	2340.5	2383.3	2301.2	2222.7
45°	1987.2	2094.3	2226.3	2226.3	2144.2	2133.5	2137.1	2226.3	2251.3	2154.9	2055.0
47.5°	1830.3	1948.0	2087.1	2087.1	2019.4	1998.0	2015.8	2108.6	2126.4	1990.8	1898.1
50°	1680.4	1808.9	1962.3	1951.6	1905.2	1887.4	1919.5	2019.4	1998.0	1848.1	1751.8
52.5°	1491.3	1626.9	1837.4	1848.1	1823.1	1826.7	1865.9	1930.2	1869.5	1687.6	1605.5
55°	1320.1	1459.2	1669.7	1726.8	1726.8	1723.2	1741.1	1791.0	1741.1	1523.4	1423.5
57.5°	1134.6	1252.3	1427.1	1441.4	1452.1	1412.8	1437.8	1505.6	1480.6	1295.1	1238.0
60°	931.2	1031.1	1131.0	1141.7	1095.3	1013.2	1059.6	1138.1	1156.0	1016.8	952.6
62.5°	660.0	756.4	874.1	874.1	827.7	745.7	806.3	874.1	849.1	706.4	667.2
65°	492.4	581.5	670.7	710.0	670.7	613.7	660.0	710.0	670.7	553.0	495.9
67.5°	317.5	378.2	431.7	463.8	470.9	463.8	485.2	470.9	424.6	346.1	314.0
70°	192.7	224.8	253.3	281.9	303.3	314.0	324.7	292.6	246.2	203.4	192.7
72.5°	139.1	167.7	192.7	214.1	239.0	246.2	246.2	224.8	182.0	142.7	132.0
75°	96.3	121.3	142.7	157.0	178.4	185.5	185.5	167.7	135.6	103.5	92.8
77.5°	3.6	25.0	25.0	21.4	28.5	35.7	35.7	42.8	39.2	28.5	25.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	3985.2	4113.6	4149.3	4281.3	4399.1	4516.8	4659.5	4745.1	4873.6	4962.8	5012.7
5°	3592.7	3699.8	3828.2	4024.4	4227.8	4452.6	4723.7	4959.2	5255.3	5473.0	5544.3
7.5°	3307.3	3446.5	3596.3	3842.5	4120.8	4420.5	4802.2	5187.5	5640.6	5936.8	6125.9
10°	3253.8	3396.5	3596.3	3838.9	4131.5	4474.0	4941.4	5440.8	6008.1	6368.5	6582.5
12.5°	3510.7	3664.1	3749.7	3860.3	4081.5	4463.3	5062.7	5697.7	6364.9	6757.4	6985.7
15°	3888.9	4024.4	3885.3	3746.2	3888.9	4349.1	5130.5	5911.8	6678.9	7132.0	7367.4
17.5°	4149.3	4160.0	3856.8	3560.6	3599.9	4142.2	5155.4	6125.9	7014.2	7488.7	7734.9
20°	4124.3	4038.7	3731.9	3403.7	3282.3	3874.6	5126.9	6315.0	7353.2	7849.1	8091.7
22.5°	3931.7	3831.8	3571.3	3250.2	3014.8	3557.1	5076.9	6486.2	7663.6	8227.3	8455.6
25°	3699.8	3592.7	3378.7	3096.8	2843.5	3250.2	5037.7	6721.7	8056.0	8719.6	8898.0
27.5°	3428.6	3335.9	3153.9	2950.5	2772.2	3018.3	5027.0	7032.1	8530.5	9319.0	9443.9
30°	3164.6	3079.0	2936.3	2818.5	2743.6	2882.8	4991.3	7363.9	9097.8	10007.6	10143.2
32.5°	2911.3	2825.7	2736.5	2718.6	2722.2	2832.8	4870.0	7692.1	9772.1	11006.6	11106.5
35°	2693.7	2593.8	2558.1	2600.9	2679.4	2747.2	4527.5	7963.3	10496.4	12094.7	12176.8
37.5°	2486.7	2386.8	2383.3	2486.7	2572.4	2615.2	4124.3	8230.8	11473.9	13200.7	13304.2
40°	2297.6	2197.7	2233.4	2358.3	2426.1	2447.5	3635.6	8637.6	12508.6	14367.4	14310.3
42.5°	2137.1	2033.6	2055.0	2215.6	2276.2	2333.3	3186.0	8976.5	13504.0	15473.4	15455.6
45°	1980.1	1901.6	1887.4	2062.2	2115.7	2344.0	2857.8	9237.0	14784.8	16882.7	16911.2
47.5°	1826.7	1766.0	1769.6	1844.5	1976.5	2397.5	2579.5	9408.2	16643.6	19116.1	18620.2
50°	1687.6	1641.2	1680.4	1594.8	1887.4	2329.8	2340.5	9372.5	18720.1	21256.8	20261.4
52.5°	1534.1	1523.4	1541.3	1334.3	1744.6	2055.0	2115.7	8898.0	19694.1	22719.6	22152.3
55°	1377.2	1373.6	1230.9	1066.8	1459.2	1641.2	1812.4	7424.5	19662.0	23497.3	24185.9
57.5°	1191.6	1163.1	934.8	870.5	1134.6	1141.7	1651.9	4862.9	17425.0	21635.0	23062.1
60°	902.6	881.2	685.0	706.4	792.0	731.4	1316.5	2422.5	13022.4	16854.1	18463.2
62.5°	624.4	595.8	510.2	545.9	510.2	417.4	806.3	1198.8	7888.3	10642.7	12101.9
65°	456.7	424.6	349.6	299.7	239.0	239.0	306.8	460.2	3054.0	4523.9	5455.1
67.5°	281.9	267.6	206.9	149.8	146.3	157.0	160.5	228.3	492.4	784.9	959.7
70°	182.0	167.7	139.1	96.3	89.2	92.8	96.3	107.0	124.9	135.6	164.1
72.5°	124.9	117.7	99.9	53.5	42.8	46.4	49.9	49.9	60.7	57.1	67.8
75°	89.2	82.1	71.4	25.0	14.3	17.8	21.4	17.8	21.4	14.3	17.8
77.5°	25.0	25.0	17.8	3.6	0.0	3.6	7.1	7.1	3.6	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	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-SA6F-740-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	5141.2	5223.2	5255.3	5208.9	5248.2	5184.0	5159.0	5062.7	5055.5	5037.7
5°	5833.3	6018.8	6129.4	6197.2	6118.7	6033.1	5904.7	5683.5	5615.7	5572.9
7.5°	6514.7	6803.7	6992.8	7082.0	7060.6	6885.8	6653.9	6282.8	6150.8	6086.6
10°	7107.0	7460.2	7688.5	7799.1	7752.8	7599.4	7267.5	6803.7	6628.9	6589.7
12.5°	7520.9	7845.5	8002.5	8098.8	8102.4	8041.8	7727.8	7260.4	7053.5	7003.5
15°	7781.3	7920.4	7924.0	7981.1	8081.0	8216.6	8070.3	7656.4	7435.2	7360.3
17.5°	7945.4	7792.0	7635.0	7649.3	7813.4	8173.8	8323.6	8006.1	7770.6	7688.5
20°	8063.2	7577.9	7285.4	7289.0	7456.6	8002.5	8498.4	8345.0	8102.4	8027.5
22.5°	8138.1	7388.9	6971.4	6960.7	7139.1	7799.1	8659.0	8748.2	8509.1	8423.5
25°	8291.5	7299.7	6782.3	6843.0	7000.0	7734.9	8876.6	9283.3	9062.1	8948.0
27.5°	8566.2	7388.9	6764.5	6903.6	7082.0	7924.0	9254.8	9996.9	9768.6	9640.1
30°	9040.7	7724.2	7039.2	7231.9	7445.9	8419.9	9889.9	10992.3	10664.1	10542.8
32.5°	9804.2	8419.9	7888.3	8302.2	8509.1	9233.4	10842.5	12109.0	11841.4	11598.8
35°	10856.7	10007.6	9946.9	10910.2	10860.3	10774.7	12012.7	13479.0	13075.9	12840.4
37.5°	12305.2	12562.1	13011.7	13967.8	13935.7	13282.8	13550.4	14774.1	14567.2	14263.9
40°	14114.1	14660.0	15423.5	16793.5	16365.4	15544.8	15437.7	16101.3	15933.7	15576.9
42.5°	15180.9	16122.8	17578.4	18809.3	18466.8	17032.5	16911.2	17874.5	17507.0	17118.2
45°	15676.8	17314.4	20168.6	21834.8	20796.5	18020.8	17974.4	20186.4	19979.5	19458.6
47.5°	15905.1	18516.7	23201.2	25723.6	23782.8	18887.8	18720.1	23540.1	23269.0	22655.3
50°	16158.4	20175.7	26854.6	30229.7	27389.8	19868.9	19990.2	26665.5	26551.3	25827.1
52.5°	16715.0	21931.1	31353.6	35381.6	31763.9	21406.6	22170.1	29612.5	28841.9	28007.0
55°	17549.9	23843.4	36034.5	40644.0	36227.1	23472.4	24528.4	31178.7	29016.7	28092.6
57.5°	16625.8	24321.5	38806.6	44318.8	38207.2	23479.5	22534.0	28463.7	25520.3	24624.7
60°	13193.6	22626.8	37739.9	43523.2	36519.7	20850.0	17253.7	22223.6	19333.7	18734.4
62.5°	8919.4	18977.0	33223.1	36808.7	31257.2	16401.0	11213.5	14453.0	11969.9	11473.9
65°	4887.8	14156.9	26843.9	27846.4	24464.2	11456.1	5769.1	6272.1	4777.2	4556.0
67.5°	1348.6	9854.2	19751.2	18473.9	17164.5	7460.2	1491.3	1120.3	799.2	792.0
70°	338.9	6518.3	11834.3	12198.2	10524.9	4777.2	285.4	135.6	107.0	103.5
72.5°	142.7	2804.3	5615.7	6454.1	5387.3	2212.0	103.5	39.2	32.1	25.0
75°	17.8	224.8	478.1	724.3	495.9	239.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)