

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: P638869

Luminaire Tested: GWS-SA4F-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638869
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-SA4F-760-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26857.4 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

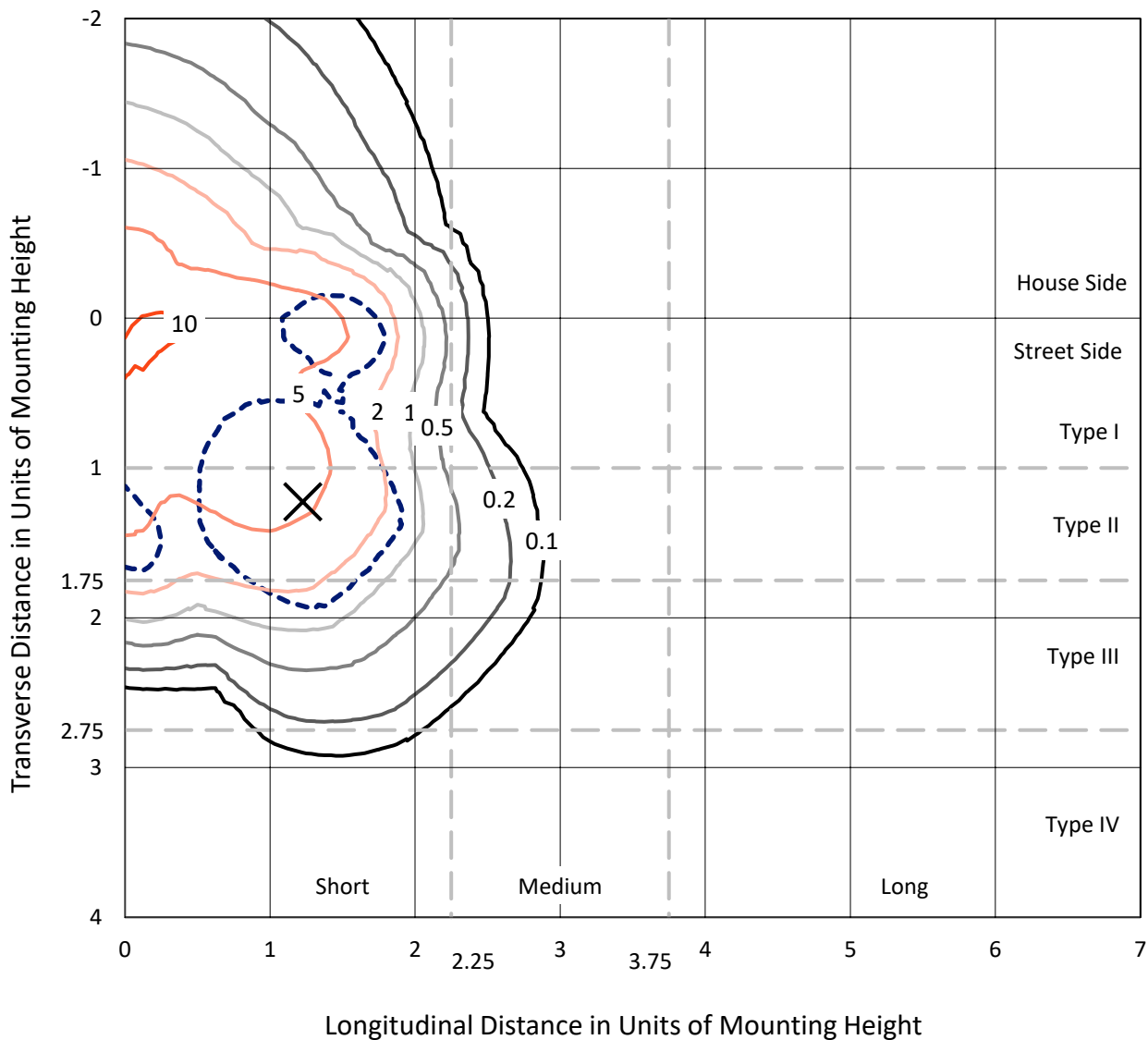
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

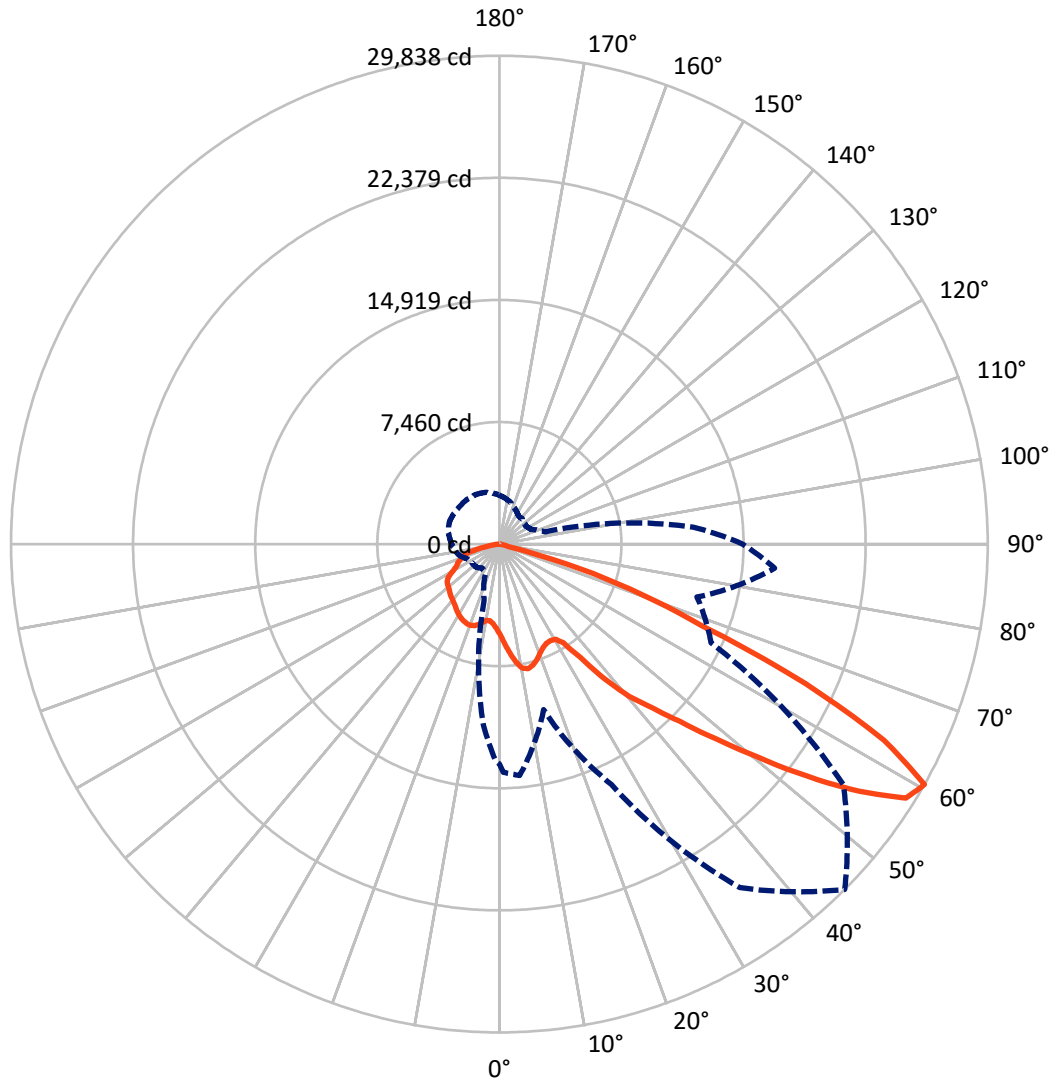
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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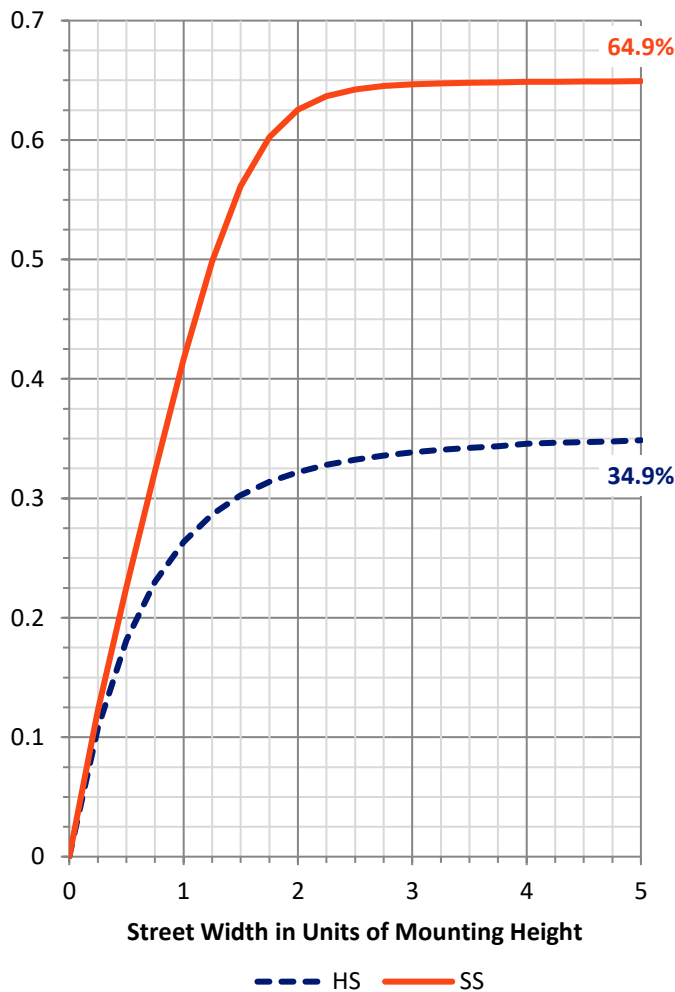
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9414.5	0.0	9414.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	17442.9	0.0	17442.9
	% Fixture	64.9	0.0	64.9
Total	Lumens	26857.4	0.0	26857.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	538.3	2.0
10°-20°	1701.0	6.3
20°-30°	2763.2	10.3
30°-40°	3896.8	14.5
40°-50°	5385.3	20.1
50°-60°	6932.5	25.8
60°-70°	4392.5	16.4
70°-80°	1127.1	4.2
80°-90°	120.5	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°	26857.4	100.0
0°-180°	26857.4	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3
2.5°	5770.8	5810.1	5834.8	5881.5	5965.2	6011.9	6063.6	6007.0	6021.8	6014.4	5923.3
5°	6112.8	6159.6	6223.6	6361.4	6516.4	6602.5	6683.8	6671.5	6595.2	6467.2	6376.1
7.5°	6432.7	6486.9	6597.6	6821.6	7050.4	7183.3	7281.7	7217.8	7153.8	6952.0	6723.1
10°	6683.8	6715.7	6865.9	7166.1	7431.9	7582.0	7702.6	7687.8	7599.2	7372.8	7065.2
12.5°	6920.0	6942.1	7104.6	7404.8	7643.5	7709.9	7808.4	7840.4	7810.8	7641.0	7338.3
15°	7173.5	7215.3	7365.4	7594.3	7702.6	7633.7	7668.1	7756.7	7840.4	7840.4	7562.3
17.5°	7409.7	7446.6	7599.2	7697.6	7594.3	7412.2	7422.0	7535.2	7734.6	7943.7	7766.5
20°	7618.9	7653.3	7803.5	7709.9	7382.6	7116.9	7109.5	7247.3	7569.7	8010.2	7985.6
22.5°	7847.8	7897.0	8022.5	7719.8	7185.8	6848.6	6846.2	6988.9	7424.5	8076.6	8236.6
25°	8172.6	8248.9	8312.9	7805.9	7080.0	6673.9	6705.9	6841.3	7377.7	8184.9	8608.2
27.5°	8654.9	8716.4	8711.5	7985.6	7075.0	6602.5	6669.0	6826.5	7461.4	8376.8	8999.4
30°	9176.6	9208.6	9156.9	8236.6	7188.2	6646.8	6745.3	6932.3	7673.0	8694.3	9575.3
32.5°	9754.9	9794.3	9695.9	8613.1	7451.6	6974.1	7190.7	7281.7	7970.8	9152.0	10185.6
35°	10419.4	10495.7	10291.4	9110.2	8226.7	8167.7	8482.7	8364.5	8603.2	9693.4	10837.7
37.5°	11118.3	11120.7	10827.9	9846.0	9747.6	9848.4	10478.4	10109.3	9944.4	10296.3	11502.2
40°	11711.3	11696.6	11246.2	10837.7	11071.5	11472.6	12233.0	11667.0	11233.9	11106.0	12053.4
42.5°	12304.4	12250.3	11795.0	11467.7	11984.5	12808.9	13667.7	12973.8	12060.8	11841.8	12597.3
45°	13062.4	13045.1	12496.4	11718.7	12808.9	14305.1	15444.5	14319.9	12550.5	12270.0	13502.9
47.5°	14285.4	14201.7	13180.5	11699.0	13581.6	16298.4	17738.0	16015.4	12892.6	12279.8	14964.6
50°	15481.4	15378.1	13997.5	11696.6	14378.9	18365.6	20445.0	18075.2	13242.0	12338.9	16451.0
52.5°	16689.7	16689.7	15338.7	11974.7	15215.6	20673.9	23572.8	20641.9	13837.5	13111.6	18279.4
55°	17408.3	17600.2	16847.2	12444.7	16195.1	23390.7	26666.1	23412.8	14757.9	14506.9	19967.6
57.5°	16495.3	16854.6	16746.3	12117.4	16773.4	25386.5	29289.4	25514.4	15213.2	14671.8	19714.1
60°	13441.3	13940.9	14189.4	10463.7	16202.4	25617.8	29838.2	25652.2	14273.1	12493.9	16886.6
62.5°	8935.5	9346.4	9725.4	7476.2	14027.0	23046.2	26390.5	23053.5	11920.5	9324.3	11699.0
65°	4382.8	4688.0	5096.5	4419.7	10958.3	19256.4	20575.4	18628.9	8622.9	5219.5	5967.6
67.5°	1146.8	1232.9	1289.5	1715.2	7850.2	13835.1	13419.2	13625.9	5539.4	1705.4	1560.2
70°	595.5	600.5	598.0	708.7	5305.7	8792.7	9248.0	8556.5	3866.0	713.7	615.2
72.5°	425.7	428.2	420.8	477.4	2561.8	5037.4	5219.5	5162.9	2025.3	423.3	420.8
75°	278.1	280.5	275.6	280.5	386.4	573.4	529.1	556.2	337.1	268.2	268.2
77.5°	164.9	167.3	164.9	169.8	164.9	164.9	152.6	152.6	145.2	145.2	147.7
80°	110.7	110.7	108.3	113.2	103.4	103.4	98.4	96.0	88.6	86.1	86.1
82.5°	66.4	68.9	66.4	66.4	61.5	61.5	56.6	54.1	46.8	46.8	44.3
85°	34.5	34.5	32.0	32.0	27.1	24.6	19.7	19.7	14.8	12.3	12.3
87.5°	4.9	4.9	2.5	2.5	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°	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3
2.5°	5898.7	5849.5	5775.7	5704.3	5637.9	5569.0	5490.2	5409.0	5340.1	5268.7	5231.8
5°	6255.6	6154.7	5962.7	5792.9	5640.3	5514.8	5379.5	5263.8	5155.5	5067.0	5022.7
7.5°	6577.9	6420.4	6130.1	5861.8	5655.1	5482.8	5295.8	5123.6	4978.4	4870.1	4828.3
10°	6875.7	6688.7	6307.2	5967.6	5726.5	5534.5	5305.7	5071.9	4879.9	4737.2	4702.7
12.5°	7116.9	6902.8	6447.5	6053.8	5768.3	5561.6	5359.8	5158.0	4968.5	4784.0	4754.4
15°	7331.0	7077.5	6553.3	6107.9	5753.5	5490.2	5320.4	5295.8	5295.8	5086.6	5027.6
17.5°	7515.5	7237.5	6639.5	6132.5	5660.0	5278.6	5175.2	5389.3	5630.5	5480.4	5347.5
20°	7727.2	7390.0	6710.8	6132.5	5487.8	5010.4	5000.5	5364.7	5721.6	5724.0	5583.7
22.5°	7941.3	7567.2	6794.5	6110.4	5251.5	4700.3	4882.4	5266.3	5583.7	5719.1	5623.1
25°	8288.3	7813.3	6927.4	6093.1	4975.9	4488.6	4776.6	5135.9	5404.1	5546.8	5485.3
27.5°	8728.7	8138.1	7129.2	6120.2	4702.7	4363.1	4663.4	4966.1	5209.7	5335.2	5290.9
30°	9220.9	8512.2	7345.7	6167.0	4505.9	4299.2	4528.0	4771.6	4988.2	5113.7	5094.0
32.5°	9848.4	8918.2	7532.8	6103.0	4395.1	4267.2	4385.3	4560.0	4769.2	4847.9	4865.2
35°	10599.0	9366.1	7675.5	5852.0	4294.2	4232.7	4230.3	4338.5	4486.2	4611.7	4624.0
37.5°	11290.5	9890.3	7833.0	5421.3	4112.1	4146.6	4048.2	4112.1	4257.3	4382.8	4432.0
40°	11974.7	10421.8	8052.0	4872.5	3873.4	3954.6	3839.0	3883.3	3998.9	4163.8	4242.6
42.5°	12639.1	10901.7	8283.3	4311.5	3634.7	3686.4	3600.3	3644.6	3765.1	3971.9	4060.5
45°	13362.6	11551.4	8463.0	3782.4	3428.0	3405.9	3337.0	3400.9	3583.0	3809.4	3915.3
47.5°	14730.8	12575.1	8581.1	3430.5	3317.3	3157.3	3078.6	3216.4	3423.1	3651.9	3779.9
50°	16401.8	14056.6	8546.6	3206.5	3221.3	2901.4	2874.3	3056.4	3277.9	3516.6	3656.9
52.5°	17725.7	15510.9	8155.4	2992.4	3034.3	2739.0	2660.2	2926.0	3137.6	3381.3	3526.4
55°	18737.2	16000.7	6954.5	2739.0	2729.1	2620.8	2456.0	2790.6	2997.4	3223.8	3381.3
57.5°	17912.8	14910.5	5155.5	2389.5	2330.5	2387.1	2227.1	2561.8	2825.1	3049.0	3189.3
60°	14866.2	11888.5	2871.8	2116.4	1949.0	2086.8	2062.2	2320.6	2638.1	2874.3	2994.9
62.5°	10092.1	7916.7	1702.9	1673.4	1579.9	1776.8	1907.2	2077.0	2389.5	2581.5	2694.7
65°	5030.0	3846.4	1132.0	1252.6	1264.9	1461.8	1707.9	1894.9	2155.7	2352.6	2465.8
67.5°	1459.3	1196.0	861.3	957.3	1090.2	1247.7	1444.5	1666.0	1919.5	2153.3	2286.2
70°	630.0	637.4	684.1	797.3	927.8	1090.2	1287.0	1503.6	1717.7	1897.3	1998.2
72.5°	445.4	462.6	514.3	630.0	753.0	908.1	1104.9	1314.1	1469.1	1651.3	1757.1
75°	285.5	297.8	339.6	428.2	519.2	669.4	856.4	1048.3	1208.3	1338.7	1439.6
77.5°	157.5	160.0	194.4	246.1	307.6	403.6	541.4	691.5	809.6	883.5	974.5
80°	91.1	91.1	108.3	140.3	177.2	236.2	312.5	386.4	457.7	504.5	548.8
82.5°	49.2	49.2	56.6	76.3	96.0	130.4	174.7	211.6	255.9	280.5	310.1
85°	14.8	14.8	19.7	27.1	34.5	49.2	68.9	88.6	108.3	125.5	142.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3
2.5°	5224.5	5190.0	5170.3	5145.7	5153.1	5130.9	5118.6	5126.0	5081.7	5126.0	5170.3
5°	5005.4	4956.2	4916.8	4884.9	4870.1	4840.6	4823.3	4823.3	4796.3	4840.6	4894.7
7.5°	4813.5	4774.1	4754.4	4734.7	4712.6	4685.5	4656.0	4646.1	4628.9	4675.7	4722.4
10°	4685.5	4690.4	4702.7	4729.8	4724.9	4707.7	4663.4	4638.8	4638.8	4692.9	4764.3
12.5°	4744.6	4796.3	4825.8	4875.0	4884.9	4870.1	4825.8	4806.1	4855.3	4936.5	5054.7
15°	4973.4	5007.9	5032.5	5071.9	5069.4	5057.1	5022.7	5037.4	5199.8	5357.3	5463.2
17.5°	5222.0	5182.6	5177.7	5202.3	5209.7	5194.9	5175.2	5241.7	5509.9	5657.6	5711.7
20°	5401.6	5266.3	5236.8	5246.6	5266.3	5258.9	5258.9	5367.2	5645.3	5714.2	5645.3
22.5°	5455.8	5263.8	5219.5	5222.0	5249.1	5251.5	5263.8	5377.0	5539.4	5541.9	5436.1
25°	5369.6	5185.1	5153.1	5158.0	5190.0	5187.5	5192.5	5256.4	5327.8	5298.3	5219.5
27.5°	5207.2	5047.3	5037.4	5064.5	5106.3	5084.2	5069.4	5086.6	5121.1	5084.2	5015.3
30°	5022.7	4887.3	4892.2	4943.9	4988.2	4951.3	4914.4	4924.2	4926.7	4887.3	4808.6
32.5°	4828.3	4727.4	4744.6	4798.7	4850.4	4811.0	4771.6	4766.7	4720.0	4673.2	4596.9
35°	4633.8	4594.5	4616.6	4660.9	4705.2	4673.2	4648.6	4633.8	4532.9	4464.0	4400.1
37.5°	4456.7	4486.2	4525.6	4552.6	4567.4	4564.9	4550.2	4515.7	4382.8	4301.6	4218.0
40°	4299.2	4390.2	4432.0	4444.4	4466.5	4461.6	4459.1	4409.9	4235.2	4149.0	4053.1
42.5°	4156.4	4284.4	4355.8	4368.1	4380.4	4382.8	4375.4	4304.1	4104.8	4003.9	3912.8
45°	4018.6	4186.0	4277.0	4264.7	4281.9	4281.9	4289.3	4195.8	3976.8	3873.4	3777.5
47.5°	3898.0	4094.9	4178.6	4163.8	4173.7	4181.0	4188.4	4080.1	3836.5	3738.1	3639.6
50°	3787.3	3996.5	4067.8	4072.8	4072.8	4090.0	4087.5	3981.7	3718.4	3612.6	3514.1
52.5°	3669.2	3895.6	3971.9	4003.9	4013.7	4021.1	3986.6	3863.6	3597.8	3469.8	3378.8
55°	3531.4	3792.2	3861.1	3903.0	3922.6	3917.7	3871.0	3745.5	3474.8	3346.8	3243.4
57.5°	3322.2	3570.7	3669.2	3688.9	3720.9	3701.2	3647.0	3541.2	3277.9	3149.9	3044.1
60°	3093.3	3273.0	3351.7	3368.9	3344.3	3351.7	3344.3	3243.4	3014.6	2913.7	2805.4
62.5°	2793.1	2953.1	3036.7	3058.9	3017.0	3044.1	3034.3	2908.8	2679.9	2574.1	2478.1
65°	2566.7	2741.4	2839.9	2852.2	2839.9	2852.2	2817.7	2665.1	2448.6	2340.3	2241.9
67.5°	2389.5	2569.2	2672.5	2707.0	2694.7	2692.2	2638.1	2460.9	2236.9	2118.8	1993.3
70°	2084.4	2241.9	2374.8	2458.4	2458.4	2411.7	2308.3	2143.4	1963.8	1862.9	1764.5
72.5°	1845.7	2045.0	2175.4	2261.6	2278.8	2251.7	2106.5	1931.8	1725.1	1624.2	1520.8
75°	1520.8	1715.2	1855.5	1968.7	1990.9	1961.3	1794.0	1621.7	1429.8	1331.3	1228.0
77.5°	1016.3	1132.0	1245.2	1348.6	1326.4	1346.1	1232.9	1102.5	984.4	910.5	863.8
80°	573.4	649.7	684.1	740.7	740.7	740.7	666.9	605.4	538.9	497.1	450.3
82.5°	324.8	374.1	388.8	435.6	447.9	450.3	401.1	361.7	319.9	297.8	265.8
85°	150.1	177.2	179.6	206.7	216.6	236.2	214.1	187.0	162.4	152.6	132.9
87.5°	4.9	14.8	19.7	36.9	49.2	56.6	61.5	61.5	51.7	46.8	39.4
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-SA4F-760-U-SLR-W-GRSWH

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3	5517.3
2.5°	5224.5	5283.5	5352.4	5401.6	5490.2	5564.1	5640.3	5724.0	5785.5	5770.8
5°	4961.1	5059.6	5185.1	5300.7	5465.6	5633.0	5817.5	6007.0	6117.8	6112.8
7.5°	4813.5	4953.8	5106.3	5261.4	5455.8	5696.9	5979.9	6275.2	6425.4	6432.7
10°	4892.2	5042.3	5145.7	5276.1	5480.4	5783.1	6122.7	6477.0	6649.3	6683.8
12.5°	5140.8	5128.5	5121.1	5214.6	5460.7	5844.6	6260.5	6683.8	6878.2	6920.0
15°	5377.0	5123.6	4971.0	5035.0	5372.1	5884.0	6395.8	6910.2	7129.2	7173.5
17.5°	5421.3	5037.4	4754.4	4798.7	5231.8	5896.3	6526.3	7131.6	7367.9	7409.7
20°	5298.3	4926.7	4596.9	4535.4	5054.7	5864.3	6607.5	7316.2	7574.6	7618.9
22.5°	5143.2	4828.3	4478.8	4318.8	4838.1	5832.3	6698.5	7510.6	7808.4	7847.8
25°	4980.8	4702.7	4368.1	4124.4	4592.0	5812.6	6851.1	7766.5	8125.8	8172.6
27.5°	4808.6	4550.2	4272.1	4030.9	4365.6	5837.2	7067.7	8180.0	8588.5	8654.9
30°	4624.0	4397.6	4210.6	3998.9	4210.6	5859.4	7306.4	8603.2	9083.1	9176.6
32.5°	4432.0	4257.3	4146.6	4013.7	4114.6	5807.7	7515.5	9078.2	9673.7	9754.9
35°	4240.1	4114.6	4065.4	4040.8	3986.6	5618.2	7685.3	9558.1	10348.0	10419.4
37.5°	4060.5	3966.9	3952.2	3979.2	3789.8	5308.1	7882.2	10168.4	11010.0	11118.3
40°	3893.1	3807.0	3804.5	3799.6	3573.2	4884.9	8148.0	10788.5	11662.1	11711.3
42.5°	3738.1	3629.8	3649.5	3590.4	3396.0	4427.1	8399.0	11317.6	12270.0	12304.4
45°	3600.3	3457.5	3479.7	3405.9	3312.3	3947.3	8620.5	11942.7	13040.2	13062.4
47.5°	3467.4	3314.8	3253.3	3248.4	3297.6	3504.3	8837.0	13146.0	14246.0	14285.4
50°	3344.3	3179.5	3004.7	3113.0	3206.5	3172.1	9107.7	14435.5	15491.3	15481.4
52.5°	3226.2	3009.7	2761.1	2970.3	2970.3	2926.0	9031.4	15218.1	16519.9	16689.7
55°	3090.9	2736.5	2507.6	2731.6	2623.3	2704.5	7680.4	15474.0	17167.1	17408.3
57.5°	2822.6	2399.4	2200.0	2320.6	2158.2	2507.6	5517.3	14204.2	16067.1	16495.3
60°	2564.2	2150.8	2020.4	1998.2	1786.6	2045.0	3575.7	11120.7	13224.8	13441.3
62.5°	2261.6	1936.7	1826.0	1656.2	1437.2	1488.8	2165.6	7318.7	8886.2	8935.5
65°	2032.7	1754.6	1543.0	1341.2	1176.3	1080.3	1279.7	3528.9	4441.9	4382.8
67.5°	1744.8	1503.6	1301.8	1156.6	1021.3	900.7	851.5	1048.3	1186.1	1146.8
70°	1552.8	1321.5	1127.1	989.3	863.8	743.2	657.1	617.7	605.4	595.5
72.5°	1338.7	1136.9	935.1	802.2	684.1	573.4	494.6	447.9	435.6	425.7
75°	1068.0	878.5	694.0	568.5	465.1	386.4	334.7	295.3	287.9	278.1
77.5°	706.3	563.5	413.4	337.1	275.6	233.8	199.3	174.7	169.8	164.9
80°	388.8	324.8	253.5	204.3	164.9	142.7	130.4	115.7	113.2	110.7
82.5°	231.3	194.4	145.2	115.7	96.0	86.1	78.7	71.4	68.9	66.4
85°	115.7	91.1	64.0	54.1	49.2	44.3	44.3	36.9	34.5	34.5
87.5°	29.5	24.6	14.8	12.3	12.3	12.3	9.8	7.4	7.4	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)