

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: P638705

Luminaire Tested: GWS-SA4F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638705
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-SA4F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20826.1 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

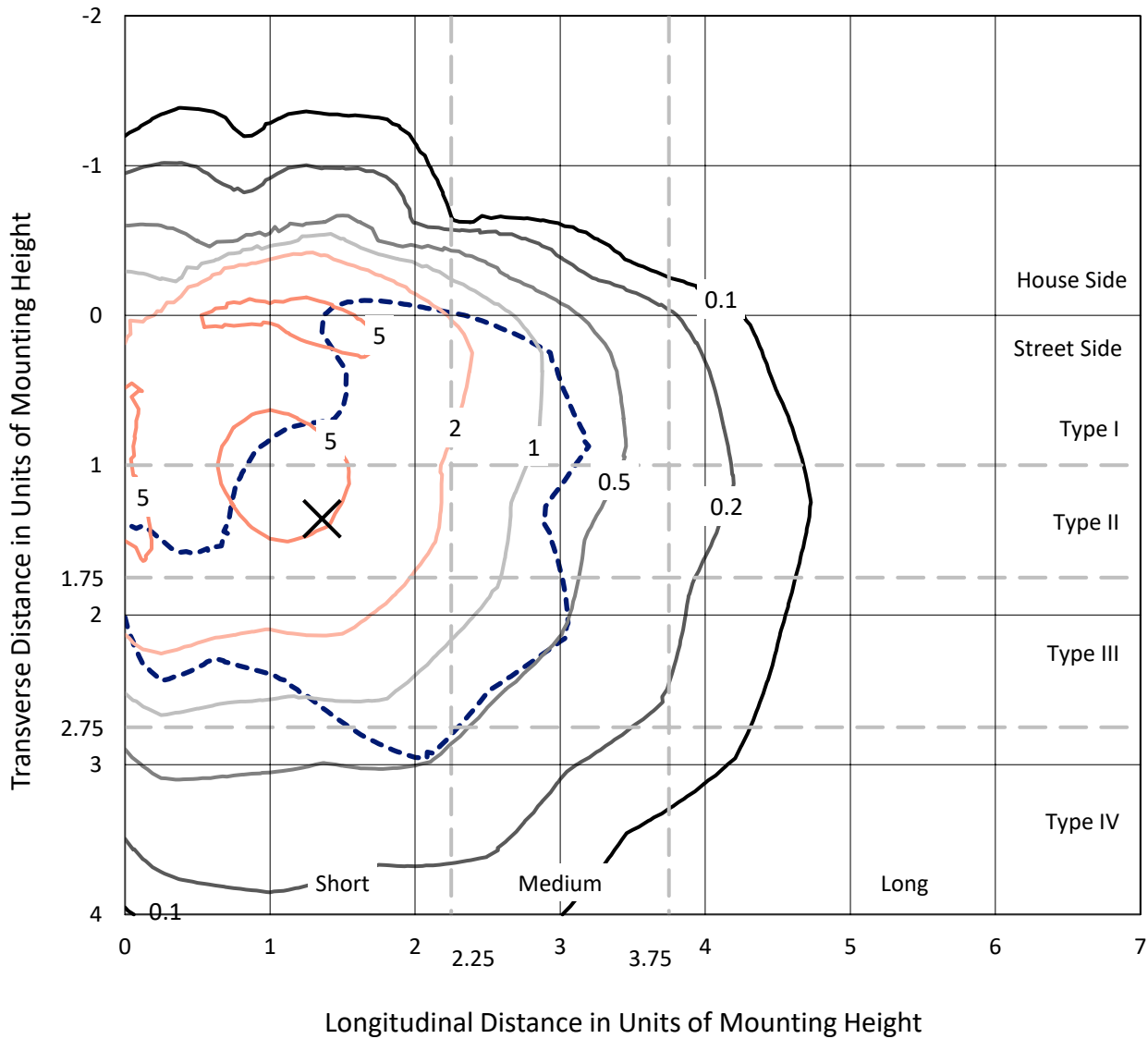
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

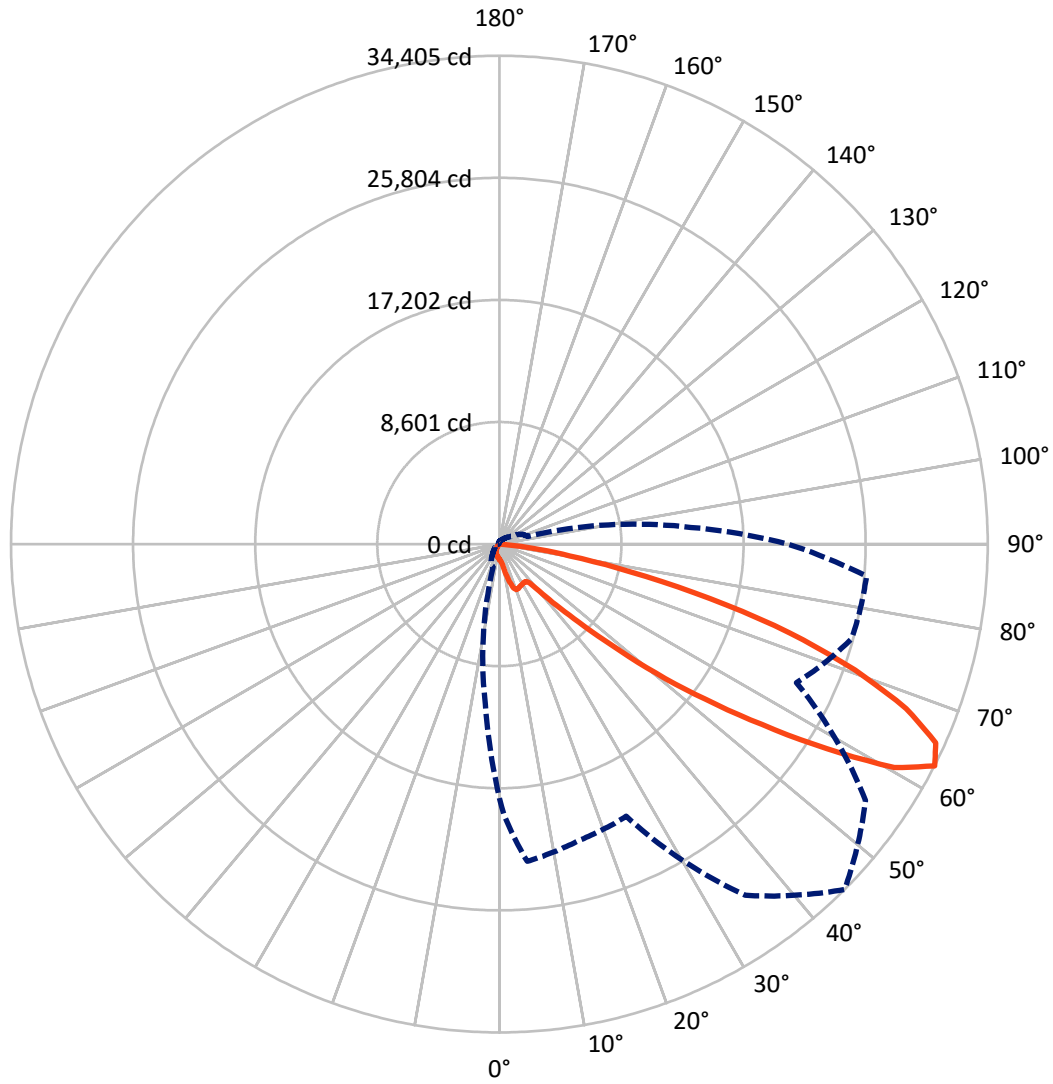
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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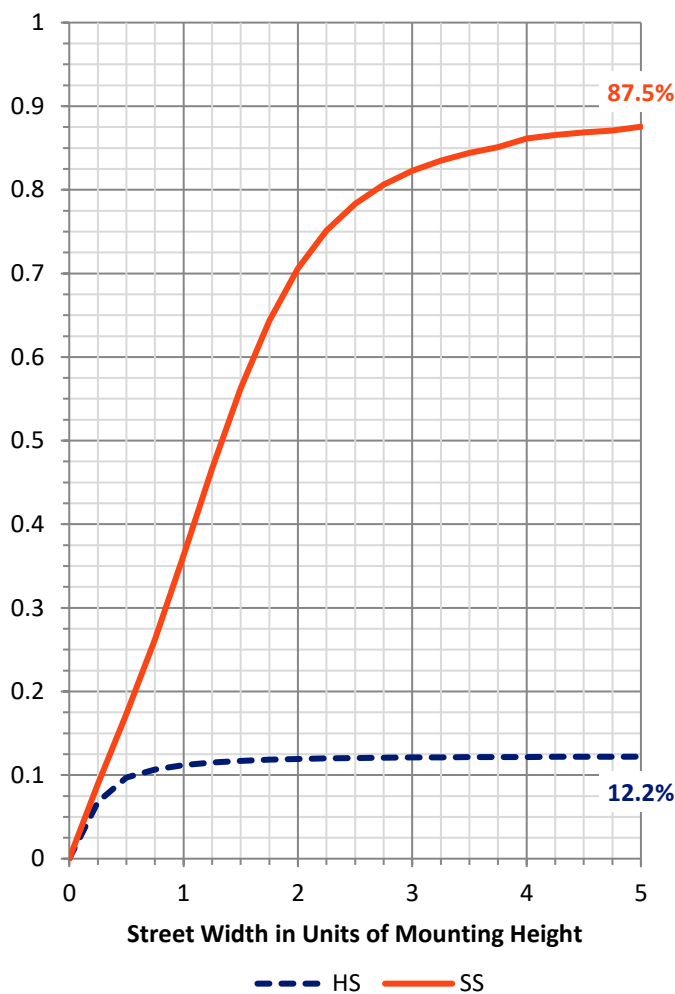
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2569.9	0.0	2569.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18256.2	0.0	18256.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	20826.1	0.0	20826.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	0.5
10°-20°	363.1	1.7
20°-30°	789.3	3.8
30°-40°	1295.5	6.2
40°-50°	2381.6	11.4
50°-60°	5114.6	24.6
60°-70°	6869.7	33.0
70°-80°	3577.1	17.2
80°-90°	339.2	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°	20826.1	100.0
0°-180°	20826.1	100.0

Coefficient of Utilization

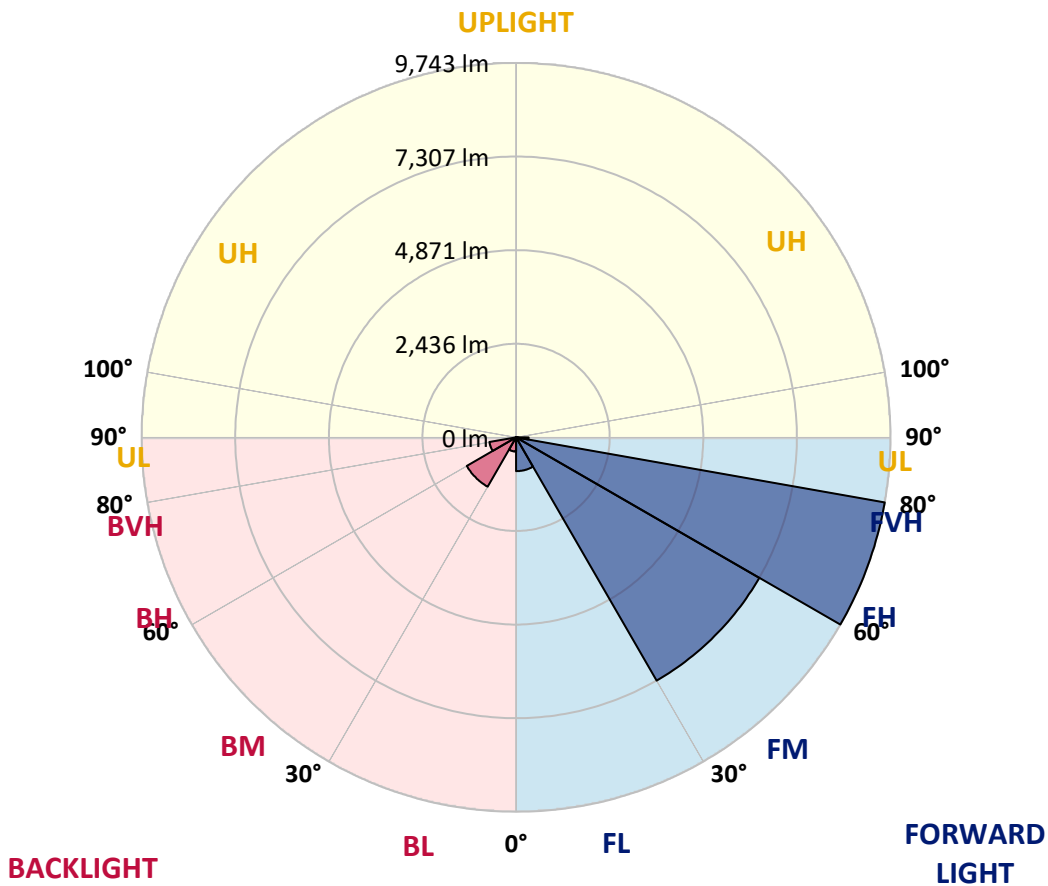


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.8	4.2			
FM (30°-60°)	7309.7	35.1			
FH (60°-80°)	9742.6	46.8			G4/12000
FVH (80°-90°)	324.0	1.6			G3/500
BL (0°-30°)	368.6	1.8	B1/500		
BM (30°-60°)	1482.0	7.1	B2/2500		
BH (60°-80°)	704.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	15.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1104.2	1109.0	1113.8	1130.6	1142.7	1152.3	1154.7	1147.5	1130.6	1113.8	1089.7
5°	1070.5	1075.3	1092.1	1137.9	1183.6	1219.6	1231.7	1224.5	1183.6	1130.6	1075.3
7.5°	1068.1	1077.7	1118.6	1214.8	1313.5	1388.0	1407.3	1390.4	1313.5	1207.6	1094.5
10°	1154.7	1171.5	1231.7	1404.9	1585.3	1717.6	1770.5	1698.4	1575.7	1383.2	1198.0
12.5°	1380.8	1409.7	1525.2	1777.7	2056.8	2232.4	2304.6	2215.6	2023.1	1744.1	1450.6
15°	1736.8	1780.1	1953.3	2331.0	2660.6	2817.0	2841.0	2790.5	2566.8	2258.9	1864.3
17.5°	2239.6	2302.2	2571.6	2956.5	3194.6	3250.0	3242.8	3189.8	3026.2	2814.6	2441.7
20°	2841.0	2915.6	3180.2	3497.7	3521.8	3456.9	3420.8	3389.5	3334.2	3298.1	3007.0
22.5°	3447.2	3538.6	3815.3	3894.7	3678.2	3490.5	3401.5	3425.6	3507.4	3685.4	3567.5
25°	4051.0	4137.6	4397.4	4183.3	3750.3	3437.6	3324.5	3382.3	3577.1	3962.0	4113.6
27.5°	4755.9	4820.8	4974.8	4380.6	3762.4	3394.3	3283.6	3372.7	3610.8	4135.2	4712.6
30°	5489.6	5528.1	5453.5	4433.5	3721.5	3329.4	3242.8	3372.7	3668.5	4250.7	5162.4
32.5°	6028.4	6035.7	5792.7	4438.3	3699.8	3276.4	3204.3	3358.2	3723.9	4346.9	5597.8
35°	6584.1	6548.1	6117.4	4510.5	3757.6	3295.7	3233.1	3399.1	3810.5	4460.0	5980.3
37.5°	7147.0	7082.1	6480.7	4628.4	3906.7	3505.0	3466.5	3608.4	3950.0	4616.4	6401.3
40°	7724.4	7635.4	6858.4	4806.4	4238.7	4217.0	4349.3	4332.5	4332.5	4816.0	6834.3
42.5°	8429.2	8325.8	7416.5	5309.2	5013.3	5496.8	5857.6	5633.9	5220.2	5275.5	7397.2
45°	9360.2	9271.2	8383.5	6271.4	6228.1	7339.5	7825.4	7382.8	6353.2	6336.4	8337.8
47.5°	10849.3	10832.4	9925.5	7387.6	7714.8	9685.0	10623.1	9771.6	7645.0	7459.8	10118.0
50°	12942.1	12891.6	11847.6	8696.3	9482.9	12590.9	14265.2	12845.9	9206.2	8770.8	12501.9
52.5°	15299.6	15352.6	14539.5	10125.2	11361.7	15824.1	18155.1	16367.7	10902.2	10437.9	15501.7
55°	17520.0	17823.1	17609.0	11797.1	13197.1	19394.0	22427.4	20231.1	13002.3	12619.8	18864.7
57.5°	19256.9	20110.8	21611.9	14226.7	15355.0	23570.1	27197.7	24419.3	15453.6	16163.2	23442.6
60°	19353.1	20483.7	23969.4	19309.8	18131.0	27152.0	31960.8	28511.2	19307.4	22179.7	27029.4
62.5°	17902.5	19114.9	22434.7	21619.2	21154.9	30199.9	34404.9	31494.2	23098.6	25703.9	25966.1
65°	16242.6	17467.1	20721.9	18999.5	20803.7	30070.0	33784.3	31563.9	23442.6	23307.9	24063.2
67.5°	13733.6	14832.9	17779.8	16817.6	19175.1	28619.5	30916.8	29574.5	21597.5	21799.6	22136.4
70°	10024.1	11082.6	13817.8	13865.9	16745.4	26004.6	26565.1	26379.8	19889.5	20103.6	19141.4
72.5°	7240.9	8133.3	10493.2	11371.3	13367.9	21806.8	21419.5	22134.0	17065.3	17904.9	15374.2
75°	5205.7	5874.5	7697.9	9891.8	10596.7	16194.5	15333.3	17142.3	13692.7	15417.5	11558.9
77.5°	2112.1	2347.9	3028.7	6663.5	6964.2	10895.0	9386.7	12451.4	9761.9	10130.0	5602.6
80°	86.6	96.2	125.1	3440.0	4775.1	6129.5	5022.9	6656.3	6447.0	4079.9	1323.1
82.5°	9.6	9.6	21.7	991.1	2090.5	3382.3	2367.1	3834.5	3264.4	1729.6	601.4
85°	2.4	2.4	4.8	113.1	490.7	541.3	319.9	1176.3	1517.9	707.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	21.7	24.1	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°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1089.7	1077.7	1063.3	1048.8	1041.6	1022.4	1015.2	1010.4	1005.5	1007.9	1007.9
5°	1053.7	1027.2	995.9	964.6	947.8	928.6	918.9	914.1	916.5	926.2	926.2
7.5°	1048.8	998.3	931.0	890.1	870.8	856.4	846.8	842.0	844.4	856.4	861.2
10°	1128.2	1039.2	918.9	849.2	827.5	813.1	803.5	796.3	791.4	801.1	803.5
12.5°	1299.0	1176.3	976.7	844.4	805.9	786.6	779.4	765.0	757.8	762.6	765.0
15°	1652.6	1441.0	1092.1	863.6	786.6	765.0	753.0	740.9	728.9	726.5	728.9
17.5°	2114.5	1811.4	1267.8	909.3	772.2	745.7	728.9	712.1	695.2	692.8	690.4
20°	2687.1	2266.1	1513.1	981.5	760.2	728.9	704.8	680.8	659.1	651.9	651.9
22.5°	3209.1	2814.6	1828.3	1070.5	743.3	704.8	676.0	647.1	623.1	611.0	608.6
25°	3846.6	3396.7	2205.9	1173.9	719.3	673.6	642.3	613.4	589.4	574.9	570.1
27.5°	4488.9	4010.1	2634.1	1308.6	690.4	642.3	613.4	587.0	560.5	543.7	538.9
30°	5111.9	4671.7	3115.3	1477.0	668.8	611.0	587.0	560.5	536.4	510.0	502.8
32.5°	5780.7	5347.7	3654.1	1664.7	651.9	589.4	562.9	538.9	507.6	483.5	471.5
35°	6425.4	6045.3	4248.3	1847.5	635.1	570.1	541.3	517.2	483.5	457.1	440.2
37.5°	7074.9	6754.9	4868.9	1958.2	611.0	543.7	517.2	498.0	459.5	428.2	409.0
40°	7762.9	7488.6	5540.1	1912.5	589.4	514.8	500.4	478.7	435.4	399.3	375.3
42.5°	8518.2	8188.7	6223.3	1736.8	570.1	490.7	476.3	454.7	413.8	370.5	339.2
45°	9468.5	8956.1	6783.8	1472.2	579.8	466.7	437.8	433.0	394.5	339.2	300.7
47.5°	11101.9	10134.8	7219.2	1301.4	644.7	440.2	406.5	418.6	377.7	307.9	264.6
50°	13601.3	12088.2	7625.8	1289.4	743.3	428.2	377.7	409.0	360.8	276.6	233.3
52.5°	15982.8	14072.8	7885.6	1395.2	829.9	459.5	348.8	396.9	348.8	255.0	211.7
55°	18260.9	15217.8	7421.3	1472.2	911.7	553.3	327.2	377.7	334.4	243.0	204.5
57.5°	20717.1	15727.8	5843.2	1628.6	969.5	632.7	332.0	348.8	315.1	235.7	202.1
60°	21450.8	15075.9	3526.6	1833.1	938.2	656.7	368.1	310.3	288.7	221.3	194.9
62.5°	20310.5	13529.1	2080.8	1669.5	911.7	620.6	421.0	286.3	262.2	202.1	180.4
65°	18604.9	11429.0	1356.8	1409.7	967.1	553.3	447.4	274.2	238.2	182.8	158.8
67.5°	16656.4	9206.2	950.2	832.3	892.5	498.0	377.7	271.8	214.1	154.0	129.9
70°	14029.5	6894.5	668.8	550.9	743.3	442.6	293.5	264.6	187.6	125.1	101.0
72.5°	10839.6	4315.7	498.0	356.0	529.2	360.8	233.3	223.7	151.6	103.4	77.0
75°	7993.8	2460.9	351.2	257.4	348.8	274.2	173.2	158.8	129.9	98.6	69.8
77.5°	4173.7	1231.7	218.9	197.3	199.7	170.8	125.1	115.5	120.3	98.6	65.0
80°	801.1	245.4	132.3	144.3	108.3	108.3	91.4	96.2	105.8	79.4	55.3
82.5°	334.4	52.9	72.2	81.8	67.4	74.6	74.6	77.0	74.6	57.7	40.9
85°	0.0	0.0	31.3	33.7	45.7	45.7	38.5	38.5	38.5	33.7	24.1
87.5°	0.0	0.0	0.0	0.0	2.4	7.2	14.4	16.8	19.2	14.4	9.6
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°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1005.5	1000.7	1007.9	1012.8	1017.6	1017.6	1012.8	1007.9	1000.7	1007.9	1000.7
5°	928.6	935.8	947.8	952.6	957.4	947.8	943.0	928.6	916.5	918.9	914.1
7.5°	868.4	875.6	890.1	899.7	899.7	894.9	880.5	866.0	846.8	846.8	844.4
10°	813.1	822.7	839.6	851.6	856.4	851.6	837.1	817.9	801.1	801.1	793.8
12.5°	767.4	779.4	798.7	815.5	820.3	815.5	801.1	781.8	762.6	762.6	757.8
15°	728.9	743.3	765.0	784.2	791.4	784.2	767.4	743.3	724.1	726.5	719.3
17.5°	692.8	704.8	733.7	755.4	762.6	755.4	733.7	702.4	683.2	688.0	683.2
20°	651.9	666.4	695.2	719.3	726.5	719.3	695.2	661.5	642.3	642.3	644.7
22.5°	608.6	623.1	651.9	668.8	678.4	671.2	647.1	615.8	596.6	596.6	599.0
25°	570.1	577.3	599.0	615.8	618.2	611.0	591.8	567.7	553.3	560.5	562.9
27.5°	534.0	534.0	543.7	553.3	550.9	543.7	536.4	517.2	514.8	522.0	529.2
30°	495.6	483.5	478.7	471.5	469.1	466.7	473.9	473.9	478.7	488.3	495.6
32.5°	461.9	437.8	416.2	394.5	382.5	392.1	411.4	428.2	445.0	459.5	466.7
35°	423.4	384.9	348.8	319.9	300.7	315.1	346.4	377.7	406.5	425.8	437.8
37.5°	384.9	329.6	286.3	250.2	235.7	247.8	281.5	324.8	368.1	392.1	409.0
40°	344.0	274.2	223.7	194.9	180.4	192.4	226.1	269.4	327.2	358.4	380.1
42.5°	303.1	226.1	180.4	151.6	144.3	151.6	178.0	221.3	283.9	322.4	351.2
45°	262.2	187.6	144.3	122.7	115.5	122.7	144.3	180.4	243.0	286.3	319.9
47.5°	226.1	158.8	120.3	101.0	96.2	103.4	120.3	151.6	204.5	247.8	286.3
50°	197.3	139.5	103.4	86.6	81.8	89.0	103.4	127.5	173.2	211.7	252.6
52.5°	178.0	129.9	91.4	74.6	72.2	77.0	89.0	108.3	146.7	180.4	218.9
55°	173.2	129.9	84.2	67.4	65.0	69.8	79.4	93.8	127.5	156.4	190.0
57.5°	178.0	139.5	79.4	57.7	55.3	60.1	69.8	81.8	110.7	134.7	166.0
60°	178.0	141.9	69.8	45.7	43.3	48.1	57.7	72.2	98.6	117.9	144.3
62.5°	161.2	129.9	57.7	36.1	31.3	36.1	48.1	60.1	86.6	105.8	127.5
65°	139.5	110.7	48.1	26.5	21.7	26.5	38.5	50.5	74.6	91.4	115.5
67.5°	113.1	84.2	36.1	19.2	14.4	19.2	28.9	40.9	62.5	79.4	103.4
70°	84.2	60.1	28.9	16.8	14.4	16.8	26.5	38.5	55.3	72.2	96.2
72.5°	62.5	40.9	24.1	16.8	12.0	16.8	24.1	36.1	52.9	69.8	91.4
75°	52.9	33.7	21.7	14.4	12.0	14.4	21.7	33.7	48.1	65.0	86.6
77.5°	50.5	31.3	19.2	12.0	9.6	12.0	19.2	28.9	43.3	60.1	84.2
80°	43.3	26.5	16.8	9.6	7.2	9.6	16.8	24.1	33.7	45.7	65.0
82.5°	33.7	21.7	12.0	4.8	2.4	4.8	12.0	14.4	21.7	26.5	38.5
85°	21.7	12.0	4.8	0.0	0.0	0.0	4.8	9.6	9.6	12.0	19.2
87.5°	9.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	7.2
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-735-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5	1082.5
2.5°	1015.2	1017.6	1022.4	1029.6	1046.4	1060.9	1075.3	1094.5	1104.2	1104.2
5°	918.9	921.3	923.8	933.4	957.4	976.7	1007.9	1046.4	1065.7	1070.5
7.5°	844.4	849.2	854.0	861.2	885.3	911.7	952.6	1024.8	1060.9	1068.1
10°	801.1	808.3	817.9	832.3	854.0	882.9	952.6	1082.5	1142.7	1154.7
12.5°	767.4	779.4	789.0	805.9	832.3	878.0	1017.6	1246.1	1351.9	1380.8
15°	733.7	748.1	762.6	779.4	808.3	894.9	1142.7	1539.6	1715.2	1736.8
17.5°	700.0	716.9	736.1	755.4	791.4	935.8	1339.9	1946.1	2191.5	2239.6
20°	661.5	683.2	709.7	733.7	774.6	1000.7	1614.2	2429.7	2737.6	2841.0
22.5°	620.6	647.1	678.4	709.7	755.4	1080.1	1946.1	2949.3	3379.9	3447.2
25°	587.0	613.4	642.3	673.6	724.1	1176.3	2347.9	3594.0	3986.1	4051.0
27.5°	555.7	582.2	608.6	637.5	692.8	1301.4	2831.4	4279.6	4688.5	4755.9
30°	522.0	553.3	579.8	608.6	663.9	1455.4	3389.5	5039.7	5427.0	5489.6
32.5°	493.1	524.4	550.9	579.8	642.3	1623.8	3976.5	5713.3	6028.4	6028.4
35°	469.1	502.8	522.0	560.5	625.5	1732.0	4532.2	6355.6	6593.8	6584.1
37.5°	442.6	483.5	498.0	524.4	603.8	1744.1	5054.2	7034.0	7209.6	7147.0
40°	416.2	459.5	481.1	495.6	579.8	1645.4	5626.7	7657.0	7806.2	7724.4
42.5°	392.1	425.8	457.1	473.9	565.3	1472.2	6086.2	8323.4	8501.4	8429.2
45°	368.1	396.9	416.2	447.4	574.9	1351.9	6480.7	9100.4	9413.1	9360.2
47.5°	344.0	368.1	380.1	428.2	639.9	1296.6	6721.3	10303.2	10892.6	10849.3
50°	317.5	346.4	346.4	423.4	736.1	1315.9	6930.5	12044.9	12956.6	12942.1
52.5°	291.1	322.4	317.5	459.5	810.7	1404.9	7168.7	13582.0	15167.3	15299.6
55°	264.6	293.5	298.3	531.6	854.0	1481.9	6247.4	14229.1	17055.7	17520.0
57.5°	235.7	252.6	310.3	587.0	839.6	1705.6	4279.6	14347.0	18260.9	19256.9
60°	204.5	218.9	351.2	574.9	793.8	1575.7	2694.3	13288.6	18090.1	19353.1
62.5°	178.0	202.1	370.5	507.6	808.3	1366.4	1717.6	11325.6	16461.5	17902.5
65°	156.4	194.9	336.8	459.5	817.9	926.2	1159.5	9213.5	14871.4	16242.6
67.5°	139.5	216.5	276.6	409.0	702.4	651.9	796.3	7159.1	12504.3	13733.6
70°	127.5	221.3	226.1	351.2	543.7	418.6	524.4	4818.4	8619.3	10024.1
72.5°	115.5	163.6	170.8	281.5	351.2	255.0	339.2	2756.8	6283.4	7240.9
75°	110.7	110.7	117.9	182.8	194.9	185.2	218.9	1645.4	4505.7	5205.7
77.5°	103.4	84.2	74.6	117.9	105.8	132.3	129.9	731.3	1953.3	2112.1
80°	81.8	60.1	50.5	74.6	72.2	89.0	77.0	60.1	89.0	86.6
82.5°	50.5	38.5	36.1	45.7	40.9	45.7	36.1	9.6	9.6	9.6
85°	24.1	21.7	19.2	19.2	21.7	19.2	14.4	4.8	2.4	2.4
87.5°	12.0	12.0	9.6	7.2	9.6	9.6	7.2	2.4	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)