

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: P638870

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638870
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21303.3 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

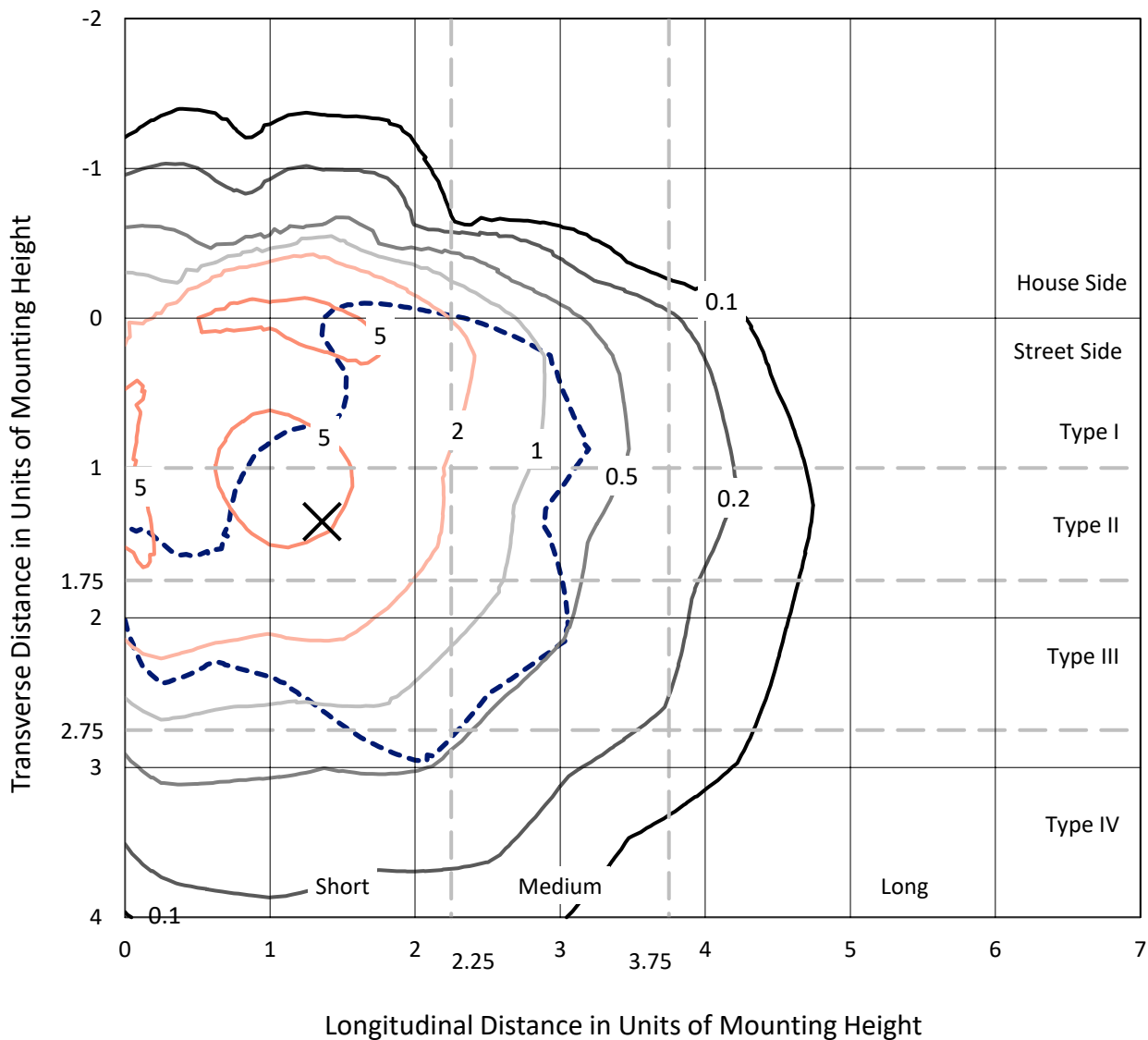
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

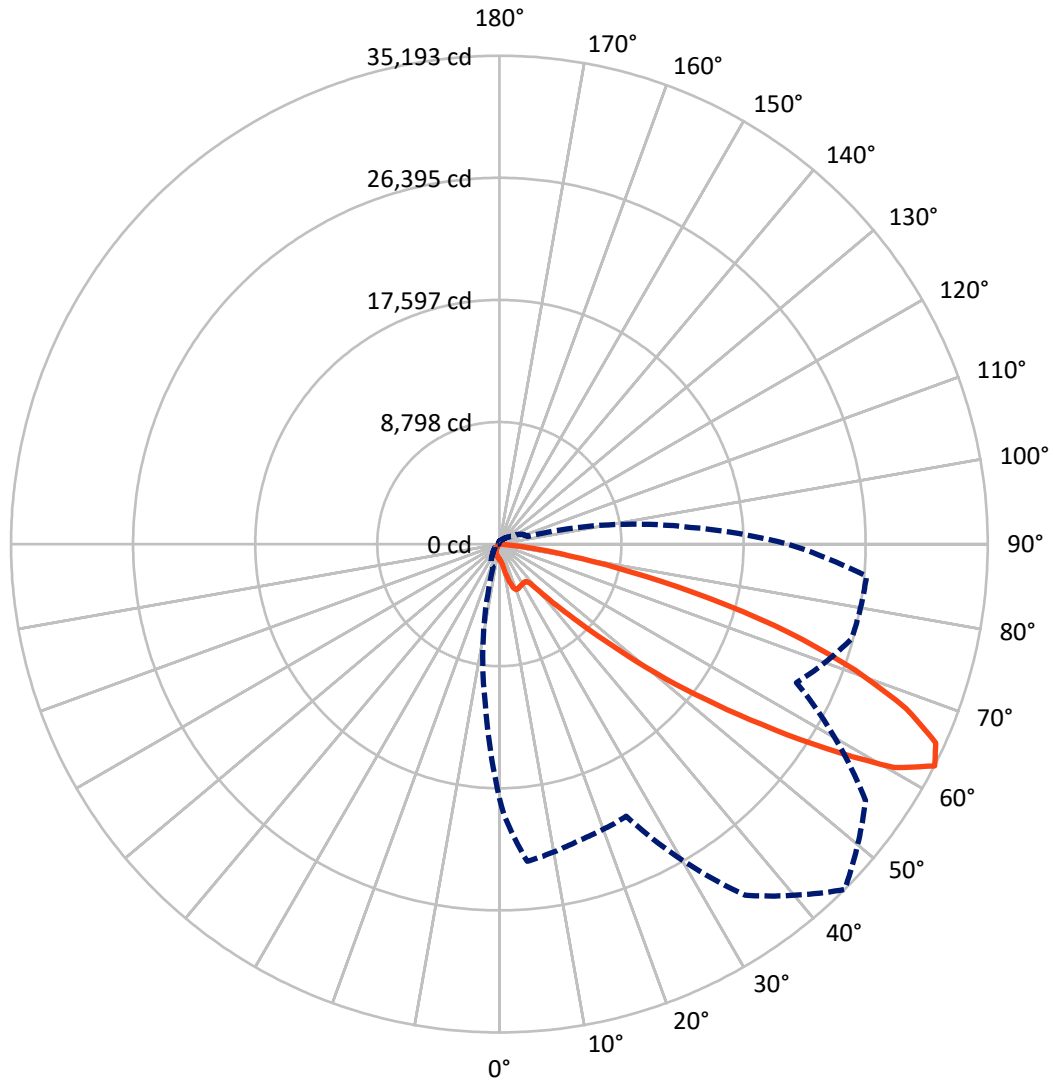
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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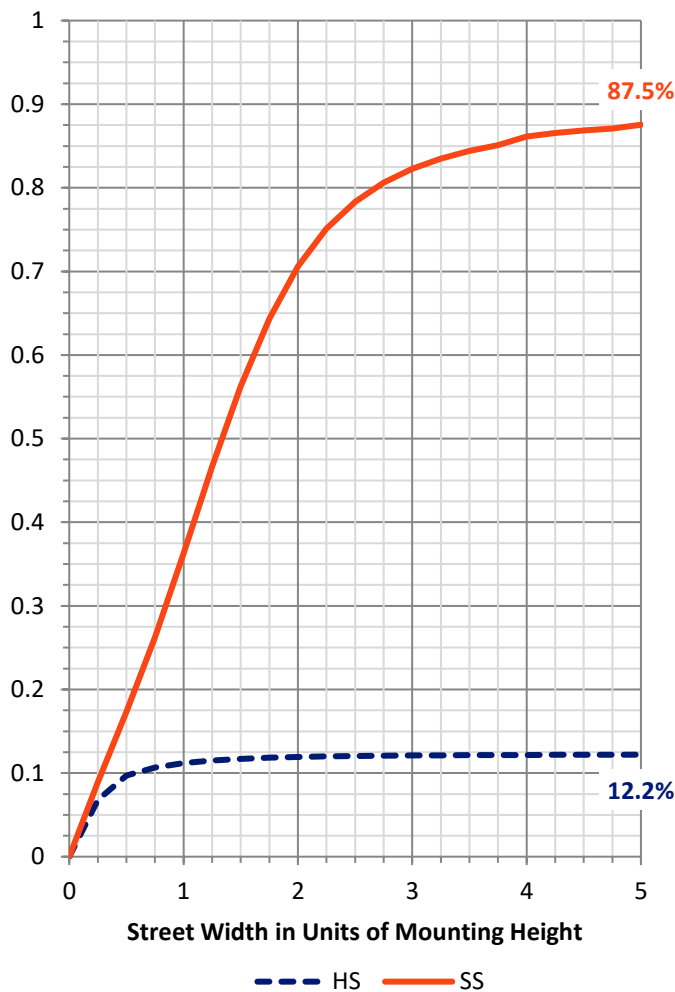
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2628.8	0.0	2628.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18674.5	0.0	18674.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	21303.3	0.0	21303.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	0.5
10°-20°	371.4	1.7
20°-30°	807.4	3.8
30°-40°	1325.2	6.2
40°-50°	2436.2	11.4
50°-60°	5231.8	24.6
60°-70°	7027.1	33.0
70°-80°	3659.1	17.2
80°-90°	346.9	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°	21303.3	100.0
0°-180°	21303.3	100.0

Coefficient of Utilization



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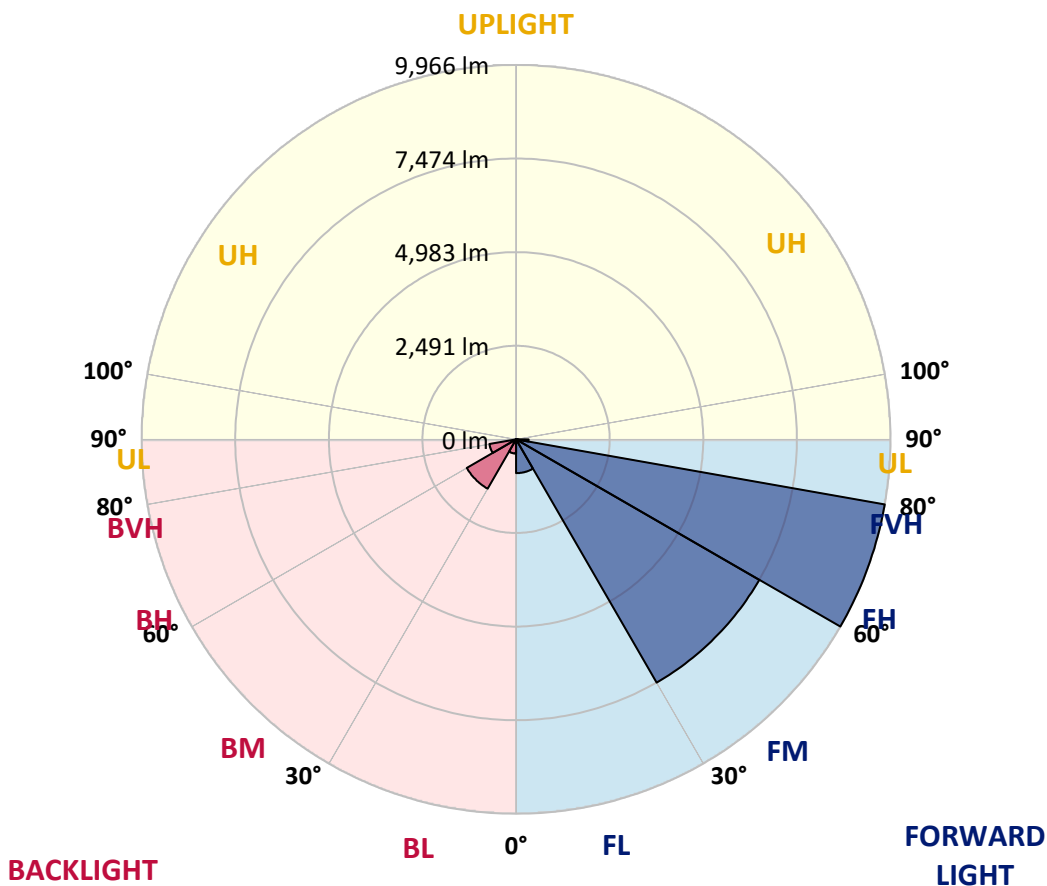
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.0	4.2			
FM (30°-60°)	7477.2	35.1			
FH (60°-80°)	9965.9	46.8			G4/12000
FVH (80°-90°)	331.5	1.6			G3/500
BL (0°-30°)	377.1	1.8	B1/500		
BM (30°-60°)	1515.9	7.1	B2/2500		
BH (60°-80°)	720.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 </tr			

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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1129.5	1134.4	1139.3	1156.5	1168.8	1178.7	1181.1	1173.8	1156.5	1139.3	1114.7
5°	1095.0	1099.9	1117.2	1163.9	1210.7	1247.6	1259.9	1252.5	1210.7	1156.5	1099.9
7.5°	1092.6	1102.4	1144.2	1242.7	1343.6	1419.8	1439.5	1422.3	1343.6	1235.3	1119.6
10°	1181.1	1198.4	1259.9	1437.1	1621.6	1757.0	1811.1	1737.3	1611.8	1414.9	1225.4
12.5°	1412.5	1442.0	1560.1	1818.5	2103.9	2283.6	2357.4	2266.3	2069.5	1784.0	1483.8
15°	1776.6	1820.9	1998.1	2384.4	2721.6	2881.5	2906.1	2854.4	2625.6	2310.6	1907.1
17.5°	2290.9	2354.9	2630.5	3024.2	3267.8	3324.4	3317.1	3262.9	3095.6	2879.0	2497.6
20°	2906.1	2982.4	3253.1	3577.9	3602.5	3536.1	3499.1	3467.2	3410.6	3373.7	3075.9
22.5°	3526.2	3619.7	3902.7	3983.9	3762.4	3570.5	3479.5	3504.1	3587.7	3769.8	3649.3
25°	4143.9	4232.4	4498.2	4279.2	3836.3	3516.4	3400.7	3459.8	3659.1	4052.8	4207.8
27.5°	4864.9	4931.3	5088.8	4481.0	3848.6	3472.1	3358.9	3449.9	3693.5	4230.0	4820.6
30°	5615.4	5654.7	5578.5	4535.1	3806.7	3405.6	3317.1	3449.9	3752.6	4348.1	5280.7
32.5°	6166.6	6174.0	5925.4	4540.0	3784.6	3351.5	3277.7	3435.2	3809.2	4446.5	5726.1
35°	6735.0	6698.1	6257.6	4613.9	3843.7	3371.2	3307.2	3477.0	3897.8	4562.2	6117.4
37.5°	7310.8	7244.4	6629.2	4734.4	3996.2	3585.3	3545.9	3691.1	4040.5	4722.1	6548.0
40°	7901.4	7810.3	7015.5	4916.5	4335.8	4313.6	4449.0	4431.8	4431.8	4926.4	6990.9
42.5°	8622.4	8516.6	7586.4	5430.8	5128.1	5622.8	5991.9	5763.0	5339.8	5396.4	7566.7
45°	9574.7	9483.6	8575.6	6415.1	6370.8	7507.7	8004.7	7552.0	6498.8	6481.5	8528.9
47.5°	11097.9	11080.6	10152.9	7556.9	7891.5	9906.9	10866.6	9995.5	7820.2	7630.7	10349.8
50°	13238.7	13187.0	12119.1	8895.5	9700.2	12879.4	14592.1	13140.3	9417.2	8971.8	12788.4
52.5°	15650.2	15704.3	14872.6	10357.2	11622.0	16186.6	18571.1	16742.8	11152.0	10677.1	15856.9
55°	17921.5	18231.5	18012.5	12067.4	13499.5	19838.4	22941.3	20694.7	13300.2	12909.0	19297.0
57.5°	19698.1	20571.7	22107.1	14552.7	15706.8	24110.2	27820.9	24978.8	15807.7	16533.6	23979.8
60°	19796.5	20953.1	24518.7	19752.2	18546.5	27774.2	32693.2	29164.5	19749.8	22687.9	27648.7
62.5°	18312.7	19552.9	22948.7	22114.5	21639.6	30891.9	35193.3	32215.8	23627.9	26292.8	26561.1
65°	16614.8	17867.3	21196.7	19434.8	21280.3	30759.0	34558.4	32287.2	23979.8	23842.0	24614.6
67.5°	14048.3	15172.8	18187.2	17202.9	19614.4	29275.2	31625.2	30252.1	22092.4	22299.1	22643.6
70°	10253.8	11336.6	14134.4	14183.6	17129.1	26600.4	27173.8	26984.3	20345.3	20564.3	19580.0
72.5°	7406.8	8319.7	10733.7	11631.8	13674.2	22306.5	21910.3	22641.1	17456.4	18315.2	15726.5
75°	5325.0	6009.1	7874.3	10118.5	10839.5	16565.6	15684.7	17535.1	14006.4	15770.8	11823.8
77.5°	2160.5	2401.7	3098.1	6816.2	7123.8	11144.6	9601.7	12736.7	9985.6	10362.1	5731.0
80°	88.6	98.4	128.0	3518.8	4884.5	6269.9	5138.0	6808.8	6594.7	4173.4	1353.4
82.5°	9.8	9.8	22.1	1013.8	2138.4	3459.8	2421.4	3922.4	3339.2	1769.3	615.2
85°	2.5	2.5	4.9	115.7	502.0	553.7	327.3	1203.3	1552.7	723.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3	22.1	24.6	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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1114.7	1102.4	1087.6	1072.9	1065.5	1045.8	1038.4	1033.5	1028.6	1031.0	1031.0
5°	1077.8	1050.7	1018.7	986.8	969.5	949.8	940.0	935.1	937.5	947.4	947.4
7.5°	1072.9	1021.2	952.3	910.5	890.8	876.0	866.2	861.3	863.7	876.0	880.9
10°	1154.1	1063.0	940.0	868.6	846.5	831.7	821.9	814.5	809.6	819.4	821.9
12.5°	1328.8	1203.3	999.1	863.7	824.3	804.7	797.3	782.5	775.1	780.0	782.5
15°	1690.5	1474.0	1117.2	883.4	804.7	782.5	770.2	757.9	745.6	743.1	745.6
17.5°	2163.0	1852.9	1296.8	930.2	789.9	762.8	745.6	728.4	711.1	708.7	706.2
20°	2748.6	2318.0	1547.8	1004.0	777.6	745.6	721.0	696.4	674.2	666.9	666.9
22.5°	3282.6	2879.0	1870.2	1095.0	760.4	721.0	691.5	661.9	637.3	625.0	622.6
25°	3934.7	3474.5	2256.5	1200.8	735.8	689.0	657.0	627.5	602.9	588.1	583.2
27.5°	4591.7	4102.0	2694.5	1338.6	706.2	657.0	627.5	600.4	573.3	556.1	551.2
30°	5229.0	4778.7	3186.6	1510.9	684.1	625.0	600.4	573.3	548.7	521.7	514.3
32.5°	5913.1	5470.2	3737.8	1702.8	666.9	602.9	575.8	551.2	519.2	494.6	482.3
35°	6572.6	6183.8	4345.6	1889.8	649.6	583.2	553.7	529.1	494.6	467.5	450.3
37.5°	7237.0	6909.7	4980.5	2003.0	625.0	556.1	529.1	509.4	470.0	438.0	418.3
40°	7940.8	7660.2	5667.0	1956.3	602.9	526.6	511.8	489.7	445.4	408.5	383.9
42.5°	8713.4	8376.3	6365.9	1776.6	583.2	502.0	487.2	465.1	423.2	379.0	347.0
45°	9685.4	9161.3	6939.2	1506.0	593.0	477.4	447.9	442.9	403.6	347.0	307.6
47.5°	11356.2	10367.0	7384.6	1331.3	659.5	450.3	415.9	428.2	386.3	315.0	270.7
50°	13912.9	12365.1	7800.5	1318.9	760.4	438.0	386.3	418.3	369.1	283.0	238.7
52.5°	16349.0	14395.2	8066.3	1427.2	848.9	470.0	356.8	406.0	356.8	260.8	216.5
55°	18679.4	15566.5	7591.3	1506.0	932.6	566.0	334.7	386.3	342.0	248.5	209.2
57.5°	21191.8	16088.2	5977.1	1665.9	991.7	647.2	339.6	356.8	322.4	241.2	206.7
60°	21942.3	15421.4	3607.4	1875.1	959.7	671.8	376.5	317.4	295.3	226.4	199.3
62.5°	20775.9	13839.1	2128.5	1707.7	932.6	634.9	430.6	292.8	268.2	206.7	184.6
65°	19031.2	11690.9	1387.8	1442.0	989.2	566.0	457.7	280.5	243.6	187.0	162.4
67.5°	17038.1	9417.2	972.0	851.4	912.9	509.4	386.3	278.1	219.0	157.5	132.9
70°	14350.9	7052.4	684.1	563.5	760.4	452.8	300.2	270.7	191.9	128.0	103.4
72.5°	11088.0	4414.5	509.4	364.2	541.4	369.1	238.7	228.8	155.0	105.8	78.7
75°	8177.0	2517.3	359.3	263.3	356.8	280.5	177.2	162.4	132.9	100.9	71.4
77.5°	4269.4	1259.9	223.9	201.8	204.2	174.7	128.0	118.1	123.0	100.9	66.4
80°	819.4	251.0	135.3	147.6	110.7	110.7	93.5	98.4	108.3	81.2	56.6
82.5°	342.0	54.1	73.8	83.7	68.9	76.3	76.3	78.7	76.3	59.1	41.8
85°	0.0	0.0	32.0	34.5	46.8	46.8	39.4	39.4	39.4	34.5	24.6
87.5°	0.0	0.0	0.0	0.0	2.5	7.4	14.8	17.2	19.7	14.8	9.8
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°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1028.6	1023.7	1031.0	1036.0	1040.9	1040.9	1036.0	1031.0	1023.7	1031.0	1023.7
5°	949.8	957.2	969.5	974.4	979.4	969.5	964.6	949.8	937.5	940.0	935.1
7.5°	888.3	895.7	910.5	920.3	920.3	915.4	900.6	885.9	866.2	866.2	863.7
10°	831.7	841.6	858.8	871.1	876.0	871.1	856.3	836.6	819.4	819.4	812.0
12.5°	785.0	797.3	817.0	834.2	839.1	834.2	819.4	799.7	780.0	780.0	775.1
15°	745.6	760.4	782.5	802.2	809.6	802.2	785.0	760.4	740.7	743.1	735.8
17.5°	708.7	721.0	750.5	772.7	780.0	772.7	750.5	718.5	698.8	703.8	698.8
20°	666.9	681.6	711.1	735.8	743.1	735.8	711.1	676.7	657.0	657.0	659.5
22.5°	622.6	637.3	666.9	684.1	693.9	686.5	661.9	629.9	610.3	610.3	612.7
25°	583.2	590.6	612.7	629.9	632.4	625.0	605.3	580.7	566.0	573.3	575.8
27.5°	546.3	546.3	556.1	566.0	563.5	556.1	548.7	529.1	526.6	534.0	541.4
30°	506.9	494.6	489.7	482.3	479.8	477.4	484.8	484.8	489.7	499.5	506.9
32.5°	472.5	447.9	425.7	403.6	391.3	401.1	420.8	438.0	455.2	470.0	477.4
35°	433.1	393.7	356.8	327.3	307.6	322.4	354.3	386.3	415.9	435.5	447.9
37.5°	393.7	337.1	292.8	255.9	241.2	253.5	287.9	332.2	376.5	401.1	418.3
40°	351.9	280.5	228.8	199.3	184.6	196.9	231.3	275.6	334.7	366.6	388.8
42.5°	310.1	231.3	184.6	155.0	147.6	155.0	182.1	226.4	290.4	329.7	359.3
45°	268.2	191.9	147.6	125.5	118.1	125.5	147.6	184.6	248.5	292.8	327.3
47.5°	231.3	162.4	123.0	103.4	98.4	105.8	123.0	155.0	209.2	253.5	292.8
50°	201.8	142.7	105.8	88.6	83.7	91.0	105.8	130.4	177.2	216.5	258.4
52.5°	182.1	132.9	93.5	76.3	73.8	78.7	91.0	110.7	150.1	184.6	223.9
55°	177.2	132.9	86.1	68.9	66.4	71.4	81.2	96.0	130.4	159.9	194.4
57.5°	182.1	142.7	81.2	59.1	56.6	61.5	71.4	83.7	113.2	137.8	169.8
60°	182.1	145.2	71.4	46.8	44.3	49.2	59.1	73.8	100.9	120.6	147.6
62.5°	164.9	132.9	59.1	36.9	32.0	36.9	49.2	61.5	88.6	108.3	130.4
65°	142.7	113.2	49.2	27.1	22.1	27.1	39.4	51.7	76.3	93.5	118.1
67.5°	115.7	86.1	36.9	19.7	14.8	19.7	29.5	41.8	64.0	81.2	105.8
70°	86.1	61.5	29.5	17.2	14.8	17.2	27.1	39.4	56.6	73.8	98.4
72.5°	64.0	41.8	24.6	17.2	12.3	17.2	24.6	36.9	54.1	71.4	93.5
75°	54.1	34.5	22.1	14.8	12.3	14.8	22.1	34.5	49.2	66.4	88.6
77.5°	51.7	32.0	19.7	12.3	9.8	12.3	19.7	29.5	44.3	61.5	86.1
80°	44.3	27.1	17.2	9.8	7.4	9.8	17.2	24.6	34.5	46.8	66.4
82.5°	34.5	22.1	12.3	4.9	2.5	4.9	12.3	14.8	22.1	27.1	39.4
85°	22.1	12.3	4.9	0.0	0.0	0.0	4.9	9.8	9.8	12.3	19.7
87.5°	9.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.9	7.4
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-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3	1107.3
2.5°	1038.4	1040.9	1045.8	1053.2	1070.4	1085.2	1099.9	1119.6	1129.5	1129.5
5°	940.0	942.5	944.9	954.8	979.4	999.1	1031.0	1070.4	1090.1	1095.0
7.5°	863.7	868.6	873.6	880.9	905.5	932.6	974.4	1048.3	1085.2	1092.6
10°	819.4	826.8	836.6	851.4	873.6	903.1	974.4	1107.3	1168.8	1181.1
12.5°	785.0	797.3	807.1	824.3	851.4	898.2	1040.9	1274.7	1382.9	1412.5
15°	750.5	765.3	780.0	797.3	826.8	915.4	1168.8	1574.9	1754.5	1776.6
17.5°	716.1	733.3	753.0	772.7	809.6	957.2	1370.6	1990.7	2241.7	2290.9
20°	676.7	698.8	725.9	750.5	792.4	1023.7	1651.1	2485.3	2800.3	2906.1
22.5°	634.9	661.9	693.9	725.9	772.7	1104.9	1990.7	3016.8	3457.3	3526.2
25°	600.4	627.5	657.0	689.0	740.7	1203.3	2401.7	3676.3	4077.4	4143.9
27.5°	568.4	595.5	622.6	652.1	708.7	1331.3	2896.3	4377.6	4796.0	4864.9
30°	534.0	566.0	593.0	622.6	679.2	1488.7	3467.2	5155.2	5551.4	5615.4
32.5°	504.4	536.4	563.5	593.0	657.0	1661.0	4067.6	5844.2	6166.6	6166.6
35°	479.8	514.3	534.0	573.3	639.8	1771.7	4636.0	6501.2	6744.8	6735.0
37.5°	452.8	494.6	509.4	536.4	617.6	1784.0	5170.0	7195.2	7374.8	7310.8
40°	425.7	470.0	492.1	506.9	593.0	1683.1	5755.6	7832.5	7985.0	7901.4
42.5°	401.1	435.5	467.5	484.8	578.3	1506.0	6225.6	8514.1	8696.2	8622.4
45°	376.5	406.0	425.7	457.7	588.1	1382.9	6629.2	9308.9	9628.8	9574.7
47.5°	351.9	376.5	388.8	438.0	654.6	1326.3	6875.3	10539.3	11142.2	11097.9
50°	324.8	354.3	354.3	433.1	753.0	1346.0	7089.3	12320.8	13253.5	13238.7
52.5°	297.7	329.7	324.8	470.0	829.3	1437.1	7333.0	13893.2	15514.9	15650.2
55°	270.7	300.2	305.1	543.8	873.6	1515.8	6390.5	14555.2	17446.5	17921.5
57.5°	241.2	258.4	317.4	600.4	858.8	1744.7	4377.6	14675.8	18679.4	19698.1
60°	209.2	223.9	359.3	588.1	812.0	1611.8	2756.0	13593.0	18504.6	19796.5
62.5°	182.1	206.7	379.0	519.2	826.8	1397.7	1757.0	11585.1	16838.7	18312.7
65°	159.9	199.3	344.5	470.0	836.6	947.4	1186.1	9424.6	15212.2	16614.8
67.5°	142.7	221.5	283.0	418.3	718.5	666.9	814.5	7323.1	12790.8	14048.3
70°	130.4	226.4	231.3	359.3	556.1	428.2	536.4	4928.8	8816.8	10253.8
72.5°	118.1	167.3	174.7	287.9	359.3	260.8	347.0	2820.0	6427.4	7406.8
75°	113.2	113.2	120.6	187.0	199.3	189.5	223.9	1683.1	4608.9	5325.0
77.5°	105.8	86.1	76.3	120.6	108.3	135.3	132.9	748.1	1998.1	2160.5
80°	83.7	61.5	51.7	76.3	73.8	91.0	78.7	61.5	91.0	88.6
82.5°	51.7	39.4	36.9	46.8	41.8	46.8	36.9	9.8	9.8	9.8
85°	24.6	22.1	19.7	19.7	22.1	19.7	14.8	4.9	2.5	2.5
87.5°	12.3	12.3	9.8	7.4	9.8	9.8	7.4	2.5	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)