

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: P638261

Luminaire Tested: GWS-SA4E-740-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

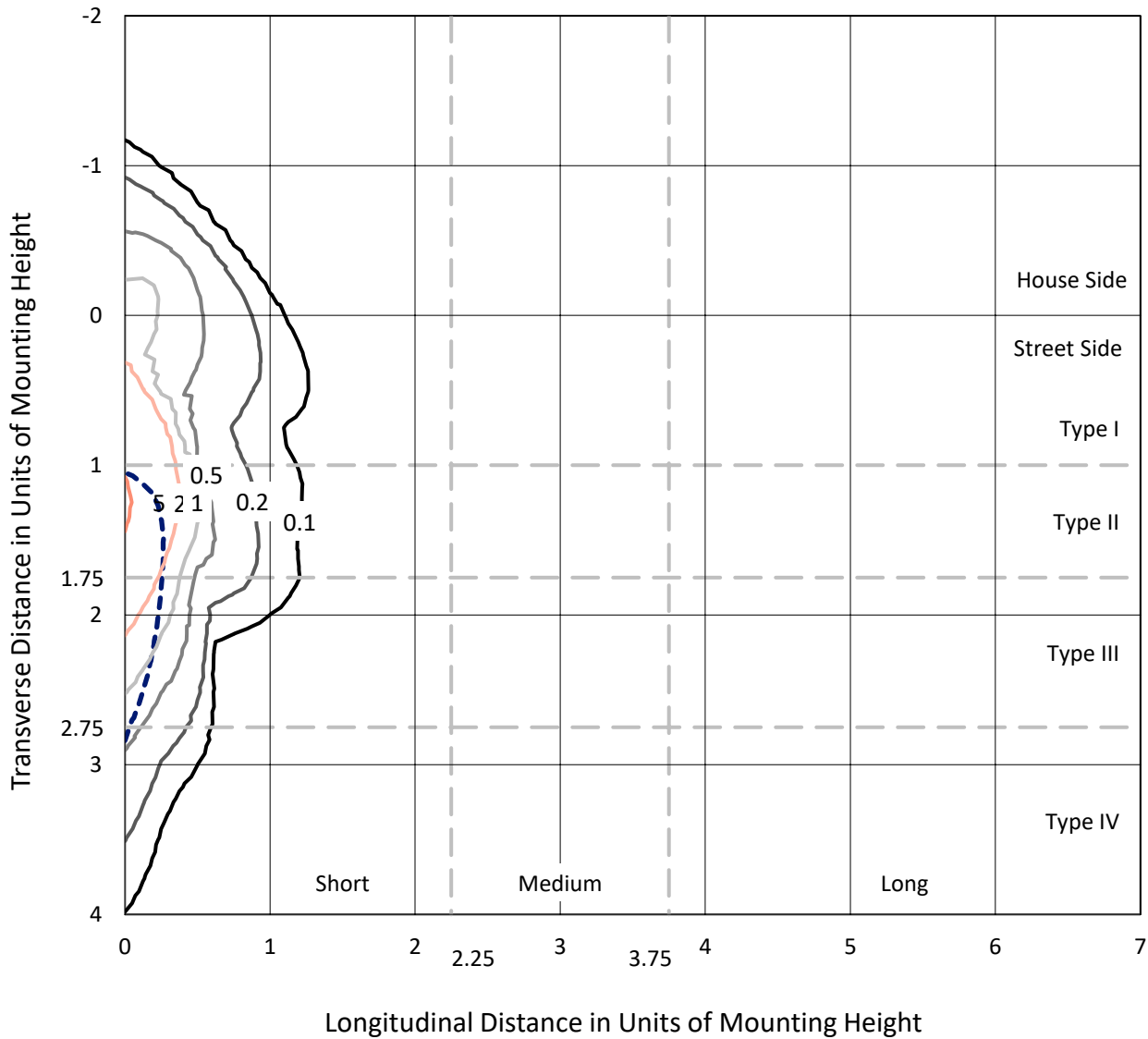
Lumens per Lamp: N/A  
Luminaire Lumens: 18529 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

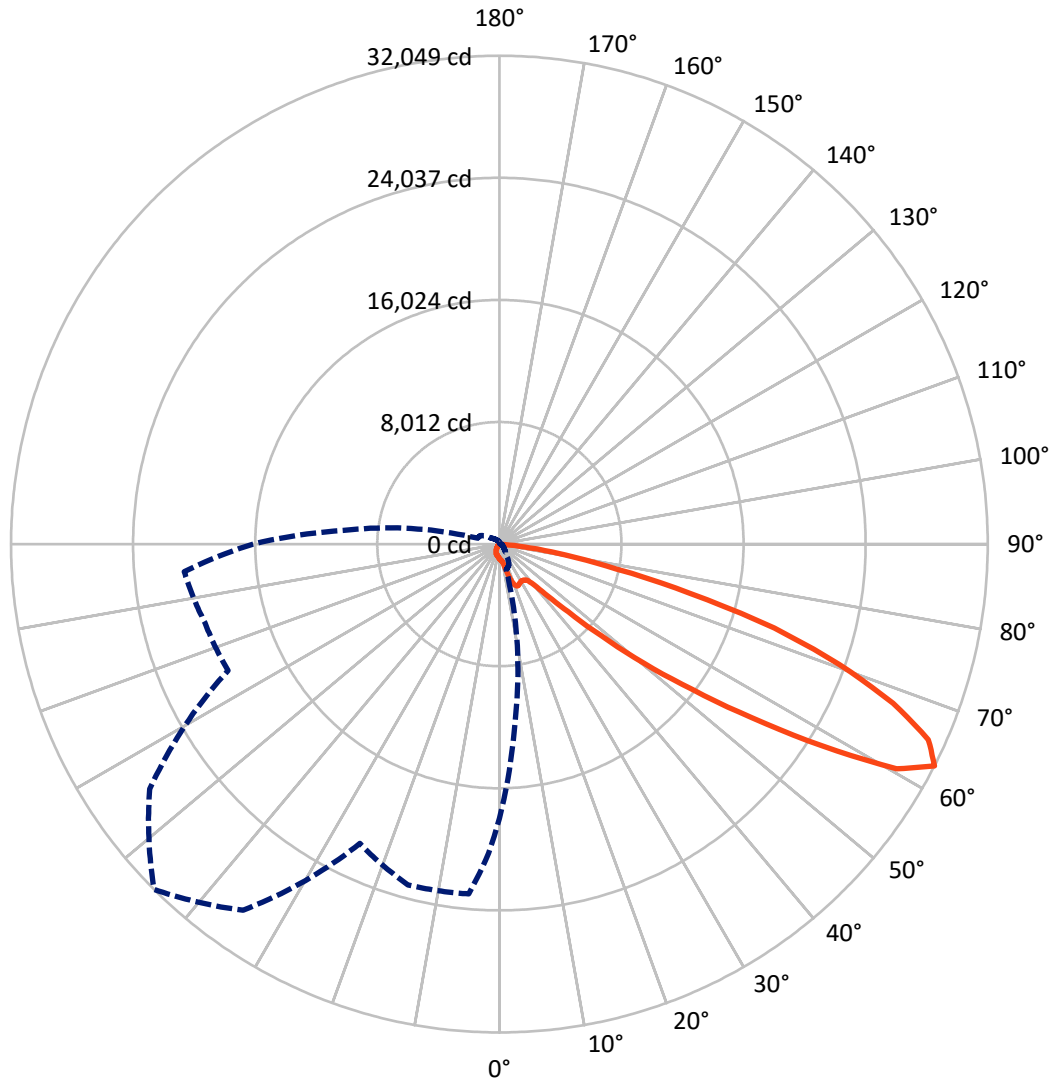
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2152.8	0.0	2152.8
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	16376.2	0.0	16376.2
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	18529.0	0.0	18529.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	0.4
10°-20°	284.4	1.5
20°-30°	642.5	3.5
30°-40°	1106.9	6.0
40°-50°	2088.1	11.3
50°-60°	4662.1	25.2
60°-70°	6235.4	33.7
70°-80°	3126.9	16.9
80°-90°	299.7	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°	18529.0	100.0
0°-180°	18529.0	100.0

**Coefficient of Utilization**



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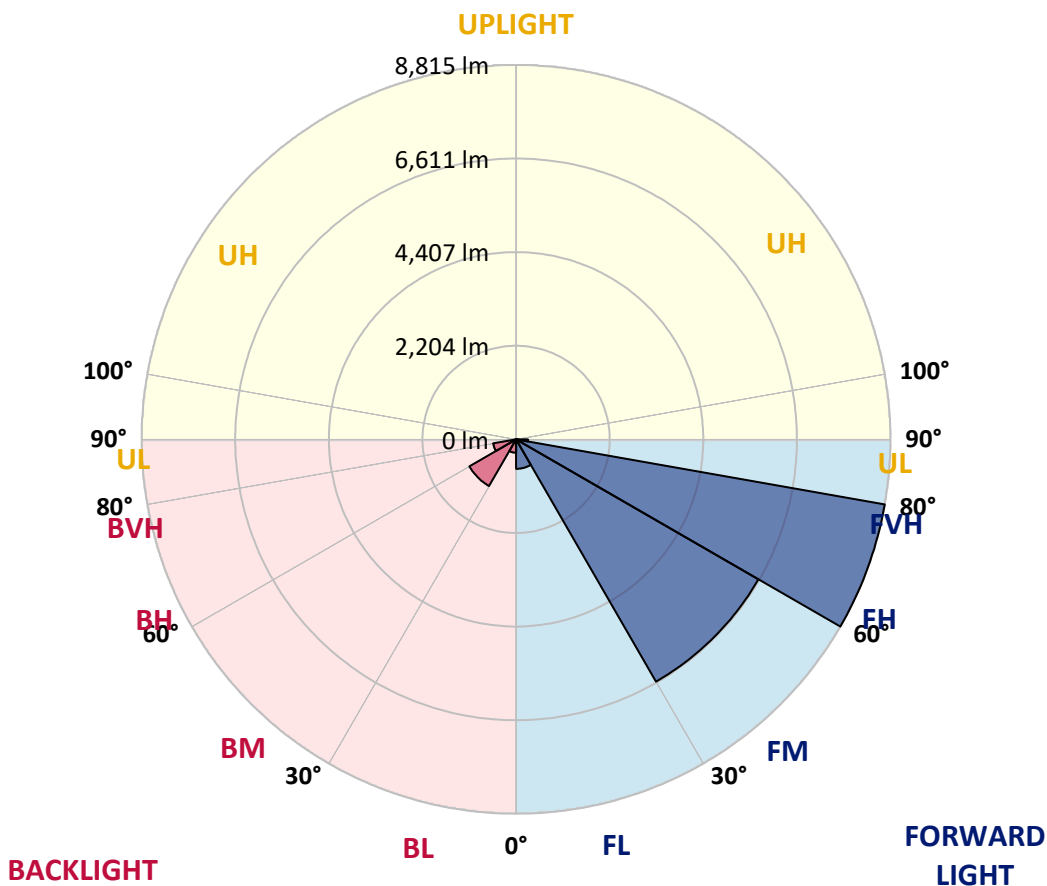
CATALOG NUMBER: GWS-SA4E-740-U-SLL-W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	693.9	3.7			
FM (30°-60°)	6587.6	35.6			
FH (60°-80°)	8814.9	47.6			G4/12000
FVH (80°-90°)	279.8	1.5			G3/500
BL (0°-30°)	316.0	1.7	B1/500		
BM (30°-60°)	1269.4	6.9	B2/2500		
BH (60°-80°)	547.5	3.0	B2/1000		G2/1000
BVH (80°-90°)	19.9	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	950.0	947.8	943.4	930.2	919.3	912.7	899.5	899.5	897.3	892.9	884.2
5°	919.3	910.5	901.7	877.6	851.2	835.9	818.3	816.1	816.1	811.8	809.6
7.5°	871.0	862.2	851.2	811.8	787.6	772.3	756.9	754.7	748.1	748.1	748.1
10°	844.7	831.5	813.9	770.1	745.9	732.8	721.8	715.2	710.8	704.3	702.1
12.5°	901.7	877.6	840.3	761.3	728.4	710.8	697.7	693.3	680.1	671.3	664.8
15°	1079.4	1020.2	945.6	781.0	721.8	695.5	677.9	669.1	658.2	642.8	631.9
17.5°	1371.2	1285.6	1160.6	844.7	715.2	682.3	660.4	645.0	629.7	612.1	598.9
20°	1774.9	1647.6	1498.5	960.9	715.2	667.0	640.6	620.9	598.9	579.2	563.8
22.5°	2288.3	2161.0	1906.5	1158.4	724.0	647.2	616.5	590.2	563.8	546.3	528.7
25°	2863.1	2683.2	2446.2	1397.5	748.1	620.9	588.0	561.6	537.5	515.6	495.8
27.5°	3503.7	3308.4	2992.5	1737.6	800.8	594.6	557.3	533.1	511.2	489.2	462.9
30°	4093.9	3977.6	3655.1	2145.7	886.3	577.0	533.1	511.2	489.2	460.7	436.6
32.5°	4802.5	4596.3	4330.8	2610.8	1000.4	559.5	513.4	482.7	465.1	438.8	412.5
35°	5515.5	5340.0	4991.2	3183.4	1127.7	541.9	489.2	460.7	445.4	414.7	386.1
37.5°	6250.5	6211.0	5866.6	3817.4	1252.7	522.2	460.7	443.2	427.8	392.7	359.8
40°	6974.5	6902.1	6584.0	4541.4	1329.5	500.2	436.6	425.6	408.1	368.6	331.3
42.5°	7667.8	7612.9	7303.6	5234.7	1318.6	480.5	412.5	399.3	386.1	346.6	300.6
45°	8519.0	8429.1	8038.6	5748.1	1206.7	502.4	388.3	366.4	364.2	326.9	269.9
47.5°	10111.8	9815.6	9153.1	6143.0	1094.8	559.5	362.0	335.7	351.0	307.1	239.1
50°	12343.0	11994.2	11035.5	6450.1	1092.6	634.0	357.6	307.1	340.1	291.8	212.8
52.5°	14585.2	13970.9	12806.0	6614.7	1173.8	688.9	397.1	278.6	326.9	276.4	193.1
55°	16733.1	15458.4	13547.5	6070.6	1237.4	748.1	469.5	263.3	302.8	258.9	182.1
57.5°	18780.0	16654.1	13870.0	4802.5	1450.2	772.3	513.4	269.9	267.7	236.9	173.3
60°	19060.8	16597.1	13218.4	2792.9	1599.4	730.6	495.8	300.6	234.8	210.6	158.0
62.5°	17999.0	15493.5	11733.1	1742.0	1485.3	715.2	441.0	342.3	212.8	186.5	138.2
65°	16386.4	13762.5	9782.7	1123.3	1125.5	794.2	386.1	335.7	199.6	164.5	118.5
67.5°	13865.6	11518.1	7707.3	752.5	636.2	677.9	337.9	230.4	195.3	140.4	92.1
70°	10120.6	8198.7	5017.5	502.4	379.5	541.9	283.0	164.5	184.3	116.3	65.8
72.5°	7397.9	5509.0	2801.6	329.1	215.0	315.9	208.4	118.5	142.6	85.6	46.1
75°	5324.7	3791.1	1599.4	210.6	142.6	173.3	136.0	81.2	92.1	68.0	41.7
77.5°	2562.5	1847.3	726.2	116.3	96.5	87.8	72.4	50.5	57.0	61.4	37.3
80°	96.5	72.4	54.8	57.0	61.4	39.5	32.9	26.3	32.9	41.7	19.7
82.5°	0.0	0.0	0.0	6.6	8.8	11.0	13.2	11.0	13.2	15.4	2.2
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°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	890.7	886.3	890.7	895.1	899.5	903.9	897.3	901.7	906.1	895.1	899.5
5°	820.5	818.3	831.5	838.1	846.9	851.2	846.9	846.9	844.7	831.5	831.5
7.5°	759.1	761.3	772.3	787.6	798.6	805.2	800.8	798.6	792.0	772.3	772.3
10°	713.0	713.0	730.6	743.7	759.1	765.7	761.3	754.7	748.1	728.4	726.2
12.5°	675.7	675.7	688.9	710.8	728.4	737.2	735.0	726.2	715.2	695.5	693.3
15°	640.6	638.4	658.2	677.9	702.1	713.0	708.6	702.1	682.3	664.8	660.4
17.5°	605.5	603.3	620.9	647.2	673.5	688.9	686.7	671.3	653.8	631.9	627.5
20°	570.4	566.0	588.0	614.3	640.6	656.0	651.6	638.4	616.5	594.6	590.2
22.5°	535.3	533.1	548.5	570.4	594.6	607.7	605.5	594.6	572.6	552.9	552.9
25°	495.8	495.8	506.8	522.2	539.7	546.3	548.5	544.1	530.9	520.0	520.0
27.5°	462.9	456.3	460.7	465.1	473.9	484.9	484.9	489.2	491.4	487.1	489.2
30°	436.6	425.6	419.0	410.3	405.9	410.3	414.7	430.0	445.4	454.1	458.5
32.5°	405.9	392.7	375.2	351.0	335.7	331.3	344.4	373.0	401.5	421.2	432.2
35°	375.2	357.6	324.7	289.6	269.9	263.3	278.6	311.5	353.2	388.3	403.7
37.5°	344.4	320.3	274.2	232.6	210.6	206.2	221.6	256.7	305.0	353.2	373.0
40°	309.3	280.8	226.0	182.1	164.5	160.2	173.3	208.4	258.9	313.7	344.4
42.5°	274.2	239.1	182.1	144.8	127.2	127.2	144.8	171.1	217.2	276.4	313.7
45°	239.1	201.8	149.2	116.3	105.3	107.5	118.5	144.8	182.1	243.5	278.6
47.5°	206.2	173.3	122.9	96.5	87.8	90.0	103.1	125.1	155.8	210.6	247.9
50°	177.7	147.0	107.5	81.2	74.6	79.0	92.1	111.9	138.2	186.5	217.2
52.5°	160.2	131.6	98.7	70.2	65.8	70.2	83.4	100.9	125.1	164.5	195.3
55°	151.4	129.4	98.7	63.6	57.0	61.4	74.6	92.1	111.9	149.2	175.5
57.5°	149.2	133.8	105.3	57.0	48.3	52.7	65.8	83.4	103.1	136.0	158.0
60°	140.4	127.2	103.1	46.1	37.3	43.9	54.8	72.4	94.3	127.2	147.0
62.5°	122.9	111.9	90.0	37.3	28.5	32.9	46.1	63.6	85.6	116.3	138.2
65°	100.9	90.0	70.2	24.1	17.6	21.9	35.1	54.8	74.6	105.3	125.1
67.5°	74.6	63.6	48.3	15.4	8.8	15.4	28.5	46.1	68.0	94.3	114.1
70°	46.1	37.3	26.3	8.8	6.6	13.2	26.3	43.9	61.4	87.8	107.5
72.5°	26.3	17.6	11.0	4.4	6.6	13.2	26.3	43.9	59.2	83.4	100.9
75°	19.7	11.0	4.4	2.2	4.4	11.0	24.1	39.5	57.0	79.0	96.5
77.5°	13.2	6.6	2.2	0.0	2.2	8.8	21.9	37.3	52.7	74.6	92.1
80°	2.2	0.0	0.0	0.0	0.0	6.6	19.7	32.9	48.3	65.8	81.2
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.4	28.5	41.7	54.8	65.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.8	21.9	32.9	41.7	46.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	21.9	26.3	30.7
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°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	897.3	910.5	910.5	919.3	930.2	950.0	960.9	976.3	987.3	998.2	1002.6
5°	829.3	831.5	833.7	838.1	851.2	873.2	892.9	917.1	945.6	967.5	980.7
7.5°	772.3	772.3	772.3	778.8	792.0	807.4	827.1	860.0	892.9	919.3	941.2
10°	724.0	730.6	732.8	743.7	759.1	778.8	800.8	829.3	866.6	901.7	941.2
12.5°	693.3	699.9	710.8	721.8	737.2	759.1	783.2	820.5	897.3	969.7	1053.1
15°	664.8	673.5	686.7	702.1	719.6	743.7	770.1	846.9	1026.8	1162.8	1294.4
17.5°	634.0	647.2	664.8	680.1	702.1	728.4	761.3	910.5	1263.7	1489.7	1713.5
20°	594.6	612.1	631.9	656.0	682.3	713.0	761.3	1042.1	1606.0	1930.7	2226.8
22.5°	557.3	574.8	598.9	629.7	660.4	691.1	772.3	1241.8	2046.9	2457.2	2832.4
25°	526.5	548.5	572.6	598.9	634.0	669.1	798.6	1522.6	2577.9	3106.6	3372.1
27.5°	498.0	524.3	548.5	570.4	601.1	640.6	857.8	1897.7	3205.3	3742.8	3951.3
30°	469.5	500.2	524.3	546.3	577.0	618.7	947.8	2376.0	3903.0	4425.2	4447.1
32.5°	445.4	473.9	502.4	524.3	552.9	601.1	1072.8	2935.5	4618.2	5122.8	4916.6
35°	419.0	451.9	478.3	502.4	533.1	585.8	1217.6	3538.8	5340.0	5763.4	5383.9
37.5°	392.7	430.0	462.9	480.5	511.2	570.4	1322.9	4168.5	6077.2	6388.7	5794.2
40°	368.6	410.3	447.6	465.1	480.5	550.7	1338.3	4813.5	6825.3	7005.2	6180.3
42.5°	342.3	388.3	421.2	445.4	458.5	537.5	1246.2	5357.6	7452.8	7619.5	6684.9
45°	313.7	368.6	394.9	412.5	438.8	546.3	1127.7	5778.8	8170.2	8457.6	7516.4
47.5°	285.2	346.6	368.6	381.7	416.8	598.9	1083.8	6059.6	9352.7	9949.5	8918.3
50°	258.9	326.9	351.0	348.8	412.5	667.0	1132.1	6272.4	11129.8	11831.9	10840.2
52.5°	230.4	305.0	333.5	324.7	445.4	719.6	1228.6	6441.4	12496.6	14038.9	13422.5
55°	206.2	280.8	307.1	305.0	506.8	759.1	1303.2	5550.6	13062.6	16090.3	16331.6
57.5°	188.7	254.5	276.4	313.7	546.3	759.1	1507.2	3940.3	13073.6	17599.7	20192.9
60°	173.3	230.4	245.7	344.4	530.9	719.6	1491.9	2413.3	12049.1	17496.6	22246.4
62.5°	160.2	208.4	228.2	353.2	469.5	713.0	1347.1	1496.3	10276.4	16164.9	20756.8
65°	149.2	190.9	219.4	324.7	425.6	763.5	908.3	1075.0	8334.7	14646.7	19047.7
67.5°	138.2	175.5	232.6	265.5	386.1	682.3	656.0	763.5	6542.3	12981.5	17479.0
70°	129.4	166.7	245.7	217.2	337.9	533.1	465.1	579.2	5008.7	10831.4	15269.7
72.5°	122.9	155.8	206.2	171.1	274.2	412.5	324.7	421.2	3273.3	8455.4	12448.3
75°	116.3	142.6	151.4	138.2	204.0	269.9	245.7	283.0	1950.4	6180.3	9444.9
77.5°	114.1	133.8	122.9	111.9	138.2	160.2	186.5	190.9	952.2	3091.2	4949.5
80°	100.9	120.7	105.3	92.1	94.3	105.3	138.2	127.2	217.2	785.4	1320.7
82.5°	79.0	94.3	87.8	76.8	76.8	76.8	92.1	85.6	70.2	353.2	596.7
85°	54.8	65.8	65.8	61.4	59.2	59.2	57.0	54.8	19.7	21.9	32.9
87.5°	37.3	46.1	48.3	46.1	39.5	35.1	30.7	26.3	8.8	0.0	4.4
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-SA4E-740-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9	960.9
2.5°	1018.0	1024.6	1024.6	1015.8	1009.2	991.7	974.1	956.6	952.2	950.0
5°	1018.0	1044.3	1057.5	1055.3	1039.9	1011.4	974.1	934.6	923.6	919.3
7.5°	1002.6	1053.1	1092.6	1099.2	1070.6	1020.2	952.2	892.9	877.6	871.0
10°	1037.7	1136.5	1215.4	1226.4	1193.5	1094.8	985.1	884.2	860.0	844.7
12.5°	1226.4	1388.8	1485.3	1531.4	1467.7	1342.7	1160.6	980.7	925.8	901.7
15°	1608.1	1838.5	2022.8	2022.8	1963.6	1742.0	1511.6	1219.8	1145.2	1079.4
17.5°	2097.4	2387.0	2549.3	2531.8	2441.8	2286.1	2009.6	1590.6	1439.2	1371.2
20°	2654.7	2828.0	2865.3	2854.3	2814.8	2724.9	2534.0	2084.2	1880.2	1774.9
22.5°	3137.3	3091.2	3036.4	2992.5	2981.5	3007.9	2981.5	2634.9	2474.8	2288.3
25°	3464.2	3203.1	3038.6	2959.6	2996.9	3148.3	3312.8	3183.4	3056.1	2863.1
27.5°	3641.9	3190.0	2953.0	2871.9	2935.5	3150.5	3508.1	3727.5	3595.8	3503.7
30°	3738.5	3179.0	2898.2	2819.2	2915.7	3185.6	3644.1	4236.5	4240.9	4093.9
32.5°	3876.7	3249.2	2909.1	2836.7	2966.2	3290.9	3815.2	4754.2	4881.5	4802.5
35°	4032.4	3356.7	2959.6	2893.8	3053.9	3431.3	4006.1	5276.4	5541.9	5515.5
37.5°	4179.4	3477.4	3078.1	3014.5	3187.8	3552.0	4190.4	5789.8	6158.4	6250.5
40°	4333.0	3646.3	3442.3	3503.7	3600.2	3742.8	4354.9	6235.1	6836.3	6974.5
42.5°	4695.0	4232.1	4543.6	4659.9	4673.1	4379.1	4714.8	6805.6	7503.2	7667.8
45°	5502.4	5274.2	6167.1	6331.7	6246.1	5355.4	5581.4	7628.3	8435.7	8519.0
47.5°	6522.5	6627.9	8389.6	8957.8	8444.4	6507.2	6632.2	9359.3	10142.5	10111.8
50°	7711.7	8209.7	10912.6	12253.1	11024.5	8003.5	7843.3	11487.4	12437.4	12343.0
52.5°	9118.0	10048.2	13944.6	15848.9	14686.2	9686.2	9620.4	14306.6	14885.8	14585.2
55°	10888.5	11823.1	17433.0	20094.2	18440.0	11739.7	11965.7	17575.6	17687.4	16733.1
57.5°	13530.0	14137.7	21544.4	24962.5	22358.3	14530.4	16169.3	21926.1	20587.8	18780.0
60°	18325.9	17114.8	25517.6	29942.7	26526.8	18455.3	21713.3	24504.0	21553.2	19060.8
62.5°	19995.5	19642.2	28005.5	32048.9	29330.6	21678.2	23154.7	23042.8	20302.6	17999.0
65°	17465.9	19012.6	27560.1	30936.6	28970.8	21147.3	20778.7	21430.3	18894.1	16386.4
67.5°	16134.1	17533.9	25873.0	27867.3	26976.5	19346.1	18521.1	18343.4	15862.1	13865.6
70°	14791.5	16178.0	23426.8	23674.7	23260.0	16410.6	15326.8	14135.5	11856.0	10120.6
72.5°	13176.7	13940.2	20032.8	18856.8	18387.3	12889.3	12661.2	10644.9	8887.6	7397.9
75°	11491.8	11270.2	15618.6	12942.0	13293.0	10028.4	10693.2	7817.0	6511.6	5324.7
77.5°	8358.9	8194.3	10460.6	7860.8	8705.5	6568.6	5901.7	3119.8	2970.6	2562.5
80°	4664.3	5623.0	5649.4	4405.4	5495.8	4282.5	1476.5	103.1	65.8	96.5
82.5°	2167.6	2417.7	3062.7	2042.5	3135.1	2121.5	305.0	0.0	0.0	0.0
85°	702.1	1026.8	860.0	300.6	759.1	717.4	50.5	0.0	0.0	0.0
87.5°	41.7	85.6	21.9	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

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