

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: P636721

Luminaire Tested: GWS-SA4B-735-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636721  
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-SA4B-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

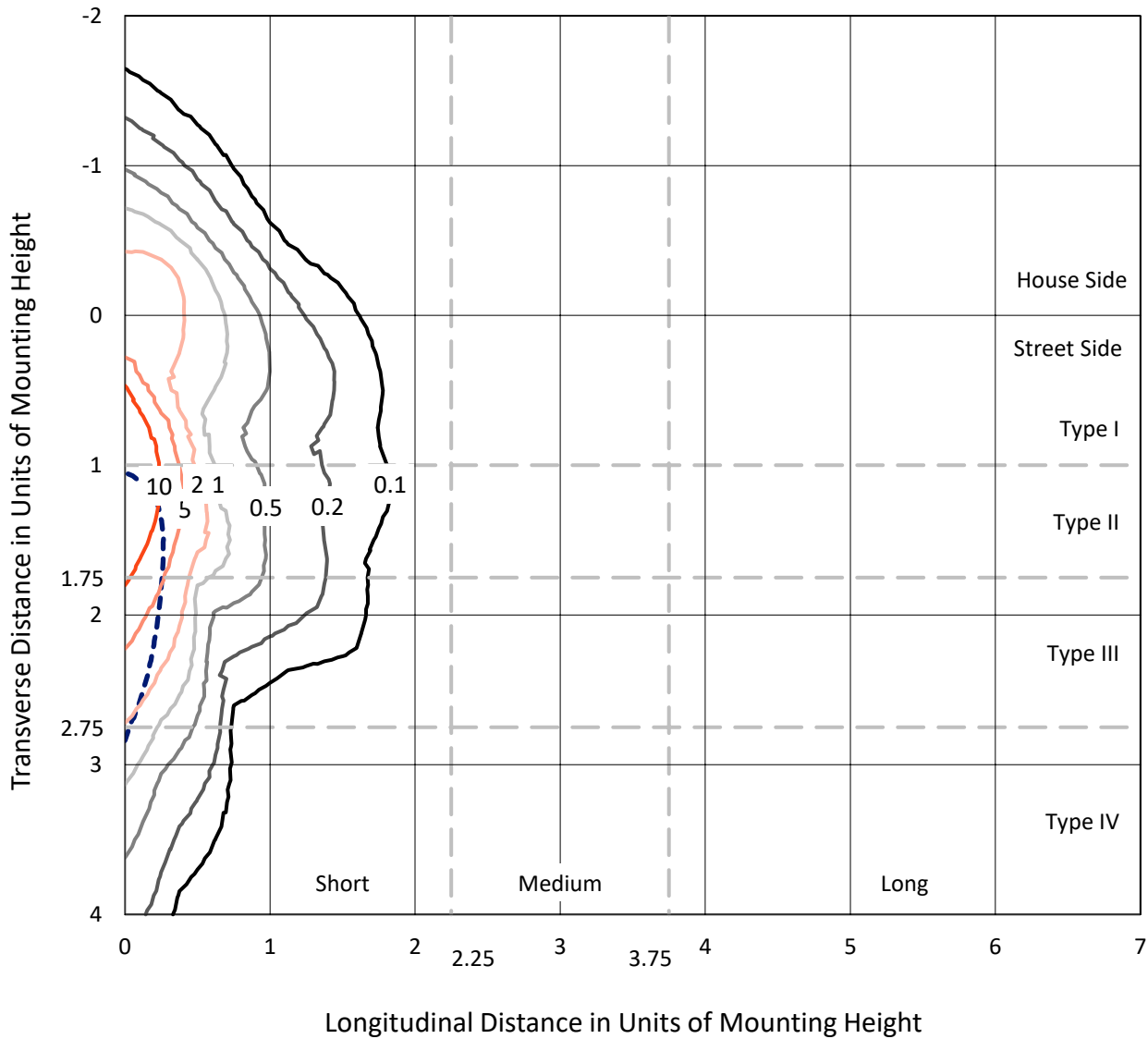
Lumens per Lamp: N/A  
Luminaire Lumens: 8643.6 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

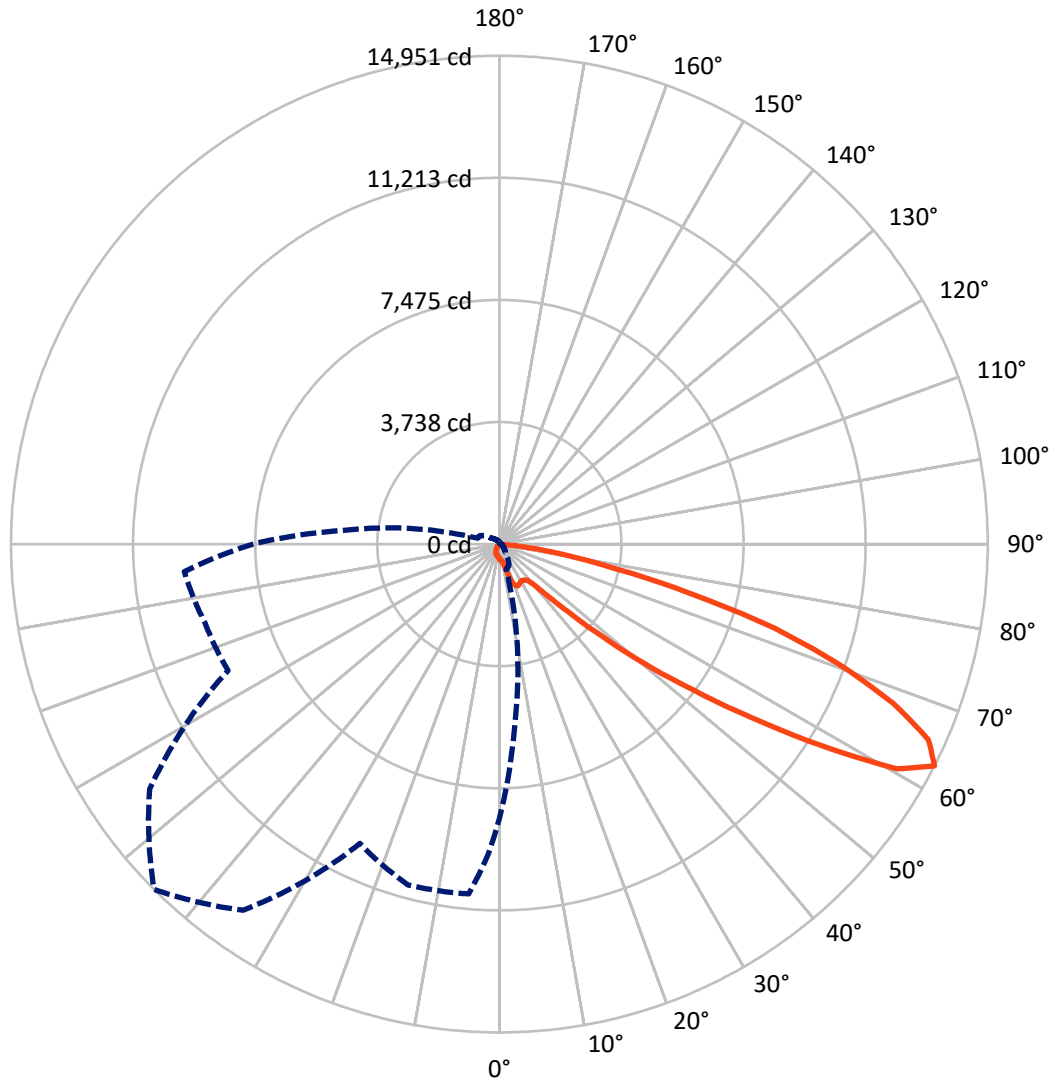
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 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	1004.3	0.0	1004.3
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	7639.3	0.0	7639.3
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	8643.6	0.0	8643.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	0.4
10°-20°	132.7	1.5
20°-30°	299.7	3.5
30°-40°	516.4	6.0
40°-50°	974.1	11.3
50°-60°	2174.8	25.2
60°-70°	2908.8	33.7
70°-80°	1458.7	16.9
80°-90°	139.8	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°	8643.6	100.0
0°-180°	8643.6	100.0

**Coefficient of Utilization**



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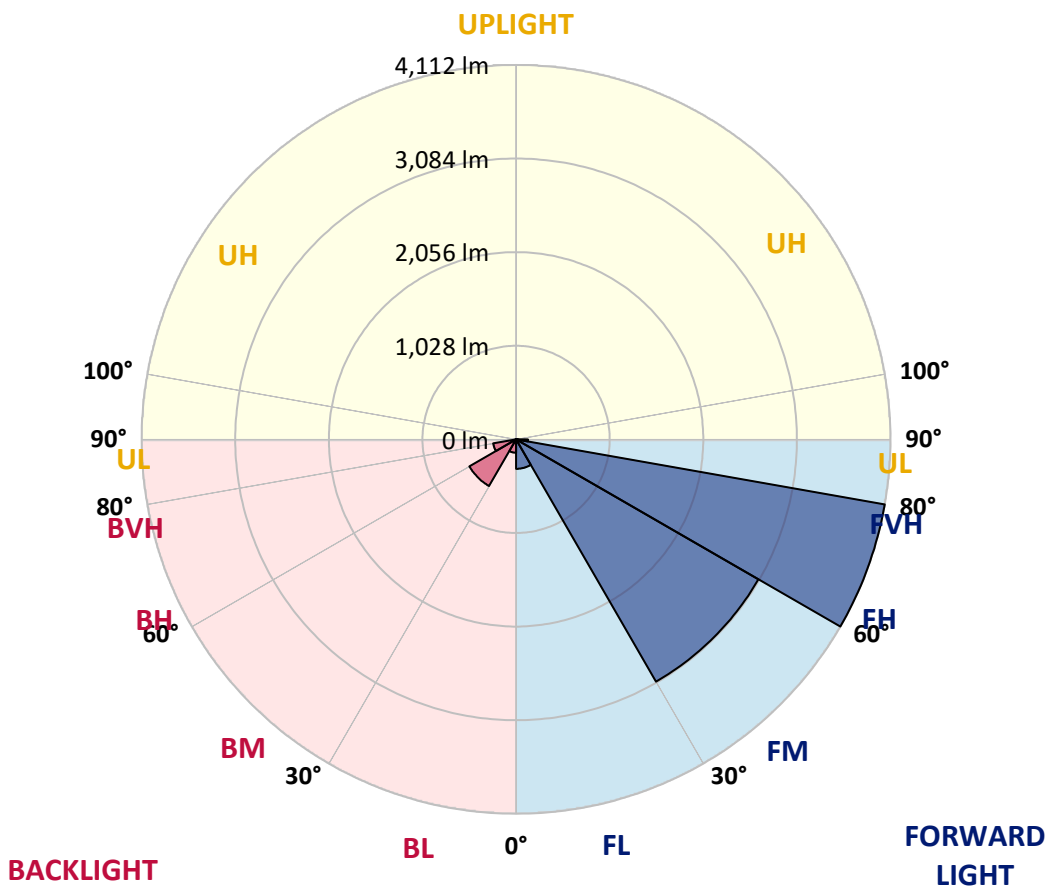
CATALOG NUMBER: GWS-SA4B-735-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	323.7	3.7			
FM (30°-60°)	3073.1	35.6			
FH (60°-80°)	4112.0	47.6			G2/5000
FVH (80°-90°)	130.5	1.5			G2/225
BL (0°-30°)	147.4	1.7	B1/500		
BM (30°-60°)	592.2	6.9	B1/1000		
BH (60°-80°)	255.4	3.0	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	443.2	442.1	440.1	433.9	428.8	425.8	419.6	419.6	418.6	416.5	412.4
5°	428.8	424.7	420.6	409.4	397.1	389.9	381.7	380.7	380.7	378.7	377.7
7.5°	406.3	402.2	397.1	378.7	367.4	360.3	353.1	352.1	349.0	349.0	349.0
10°	394.0	387.9	379.7	359.2	348.0	341.8	336.7	333.6	331.6	328.5	327.5
12.5°	420.6	409.4	392.0	355.1	339.8	331.6	325.5	323.4	317.3	313.2	310.1
15°	503.5	475.9	441.1	364.3	336.7	324.4	316.2	312.2	307.0	299.9	294.8
17.5°	639.7	599.7	541.4	394.0	333.6	318.3	308.1	300.9	293.7	285.5	279.4
20°	828.0	768.6	699.0	448.3	333.6	311.1	298.8	289.6	279.4	270.2	263.0
22.5°	1067.5	1008.1	889.4	540.4	337.7	301.9	287.6	275.3	263.0	254.8	246.7
25°	1335.6	1251.7	1141.1	651.9	349.0	289.6	274.3	262.0	250.7	240.5	231.3
27.5°	1634.4	1543.4	1396.0	810.6	373.6	277.4	260.0	248.7	238.5	228.2	215.9
30°	1909.8	1855.5	1705.1	1000.9	413.5	269.2	248.7	238.5	228.2	214.9	203.7
32.5°	2240.3	2144.1	2020.3	1217.9	466.7	261.0	239.5	225.2	217.0	204.7	192.4
35°	2572.9	2491.1	2328.3	1485.0	526.1	252.8	228.2	214.9	207.8	193.4	180.1
37.5°	2915.8	2897.4	2736.7	1780.8	584.4	243.6	214.9	206.7	199.6	183.2	167.8
40°	3253.5	3219.8	3071.4	2118.5	620.2	233.3	203.7	198.5	190.4	171.9	154.5
42.5°	3576.9	3551.4	3407.1	2441.9	615.1	224.1	192.4	186.3	180.1	161.7	140.2
45°	3974.0	3932.1	3749.9	2681.4	562.9	234.4	181.2	170.9	169.9	152.5	125.9
47.5°	4717.1	4578.9	4269.8	2865.6	510.7	261.0	168.9	156.6	163.8	143.3	111.6
50°	5757.9	5595.2	5147.9	3008.9	509.7	295.8	166.8	143.3	158.6	136.1	99.3
52.5°	6803.9	6517.3	5973.9	3085.7	547.5	321.4	185.2	130.0	152.5	129.0	90.1
55°	7805.8	7211.2	6319.8	2831.9	577.2	349.0	219.0	122.8	141.2	120.8	84.9
57.5°	8760.7	7769.0	6470.2	2240.3	676.5	360.3	239.5	125.9	124.9	110.5	80.9
60°	8891.7	7742.4	6166.3	1302.8	746.1	340.8	231.3	140.2	109.5	98.3	73.7
62.5°	8396.4	7227.6	5473.4	812.6	692.9	333.6	205.7	159.7	99.3	87.0	64.5
65°	7644.1	6420.1	4563.5	524.0	525.0	370.5	180.1	156.6	93.1	76.8	55.3
67.5°	6468.2	5373.1	3595.4	351.0	296.8	316.2	157.6	107.5	91.1	65.5	43.0
70°	4721.2	3824.6	2340.6	234.4	177.1	252.8	132.0	76.8	86.0	54.2	30.7
72.5°	3451.1	2569.9	1306.9	153.5	100.3	147.4	97.2	55.3	66.5	39.9	21.5
75°	2483.9	1768.5	746.1	98.3	66.5	80.9	63.5	37.9	43.0	31.7	19.4
77.5°	1195.4	861.7	338.8	54.2	45.0	40.9	33.8	23.5	26.6	28.7	17.4
80°	45.0	33.8	25.6	26.6	28.7	18.4	15.4	12.3	15.4	19.4	9.2
82.5°	0.0	0.0	0.0	3.1	4.1	5.1	6.1	5.1	6.1	7.2	1.0
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°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	415.5	413.5	415.5	417.6	419.6	421.7	418.6	420.6	422.7	417.6	419.6
5°	382.8	381.7	387.9	391.0	395.1	397.1	395.1	395.1	394.0	387.9	387.9
7.5°	354.1	355.1	360.3	367.4	372.5	375.6	373.6	372.5	369.5	360.3	360.3
10°	332.6	332.6	340.8	346.9	354.1	357.2	355.1	352.1	349.0	339.8	338.8
12.5°	315.2	315.2	321.4	331.6	339.8	343.9	342.9	338.8	333.6	324.4	323.4
15°	298.8	297.8	307.0	316.2	327.5	332.6	330.6	327.5	318.3	310.1	308.1
17.5°	282.5	281.4	289.6	301.9	314.2	321.4	320.3	313.2	305.0	294.8	292.7
20°	266.1	264.0	274.3	286.6	298.8	306.0	304.0	297.8	287.6	277.4	275.3
22.5°	249.7	248.7	255.9	266.1	277.4	283.5	282.5	277.4	267.1	257.9	257.9
25°	231.3	231.3	236.4	243.6	251.8	254.8	255.9	253.8	247.7	242.6	242.6
27.5°	215.9	212.9	214.9	217.0	221.1	226.2	226.2	228.2	229.3	227.2	228.2
30°	203.7	198.5	195.5	191.4	189.3	191.4	193.4	200.6	207.8	211.9	213.9
32.5°	189.3	183.2	175.0	163.8	156.6	154.5	160.7	174.0	187.3	196.5	201.6
35°	175.0	166.8	151.5	135.1	125.9	122.8	130.0	145.3	164.8	181.2	188.3
37.5°	160.7	149.4	127.9	108.5	98.3	96.2	103.4	119.7	142.3	164.8	174.0
40°	144.3	131.0	105.4	84.9	76.8	74.7	80.9	97.2	120.8	146.4	160.7
42.5°	127.9	111.6	84.9	67.5	59.4	59.4	67.5	79.8	101.3	129.0	146.4
45°	111.6	94.2	69.6	54.2	49.1	50.1	55.3	67.5	84.9	113.6	130.0
47.5°	96.2	80.9	57.3	45.0	40.9	42.0	48.1	58.3	72.7	98.3	115.6
50°	82.9	68.6	50.1	37.9	34.8	36.8	43.0	52.2	64.5	87.0	101.3
52.5°	74.7	61.4	46.1	32.8	30.7	32.8	38.9	47.1	58.3	76.8	91.1
55°	70.6	60.4	46.1	29.7	26.6	28.7	34.8	43.0	52.2	69.6	81.9
57.5°	69.6	62.4	49.1	26.6	22.5	24.6	30.7	38.9	48.1	63.5	73.7
60°	65.5	59.4	48.1	21.5	17.4	20.5	25.6	33.8	44.0	59.4	68.6
62.5°	57.3	52.2	42.0	17.4	13.3	15.4	21.5	29.7	39.9	54.2	64.5
65°	47.1	42.0	32.8	11.3	8.2	10.2	16.4	25.6	34.8	49.1	58.3
67.5°	34.8	29.7	22.5	7.2	4.1	7.2	13.3	21.5	31.7	44.0	53.2
70°	21.5	17.4	12.3	4.1	3.1	6.1	12.3	20.5	28.7	40.9	50.1
72.5°	12.3	8.2	5.1	2.0	3.1	6.1	12.3	20.5	27.6	38.9	47.1
75°	9.2	5.1	2.0	1.0	2.0	5.1	11.3	18.4	26.6	36.8	45.0
77.5°	6.1	3.1	1.0	0.0	1.0	4.1	10.2	17.4	24.6	34.8	43.0
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.2	15.4	22.5	30.7	37.9
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.2	13.3	19.4	25.6	30.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.2	15.4	19.4	21.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.2	12.3	14.3
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°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	418.6	424.7	424.7	428.8	433.9	443.2	448.3	455.4	460.6	465.7	467.7
5°	386.9	387.9	388.9	391.0	397.1	407.3	416.5	427.8	441.1	451.3	457.5
7.5°	360.3	360.3	360.3	363.3	369.5	376.6	385.8	401.2	416.5	428.8	439.1
10°	337.7	340.8	341.8	346.9	354.1	363.3	373.6	386.9	404.3	420.6	439.1
12.5°	323.4	326.5	331.6	336.7	343.9	354.1	365.4	382.8	418.6	452.4	491.3
15°	310.1	314.2	320.3	327.5	335.7	346.9	359.2	395.1	479.0	542.4	603.8
17.5°	295.8	301.9	310.1	317.3	327.5	339.8	355.1	424.7	589.5	694.9	799.3
20°	277.4	285.5	294.8	306.0	318.3	332.6	355.1	486.1	749.2	900.6	1038.8
22.5°	260.0	268.1	279.4	293.7	308.1	322.4	360.3	579.3	954.9	1146.3	1321.3
25°	245.6	255.9	267.1	279.4	295.8	312.2	372.5	710.3	1202.5	1449.2	1573.0
27.5°	232.3	244.6	255.9	266.1	280.4	298.8	400.2	885.3	1495.3	1746.0	1843.2
30°	219.0	233.3	244.6	254.8	269.2	288.6	442.1	1108.4	1820.7	2064.3	2074.5
32.5°	207.8	221.1	234.4	244.6	257.9	280.4	500.5	1369.4	2154.4	2389.7	2293.5
35°	195.5	210.8	223.1	234.4	248.7	273.3	568.0	1650.8	2491.1	2688.6	2511.5
37.5°	183.2	200.6	215.9	224.1	238.5	266.1	617.1	1944.5	2834.9	2980.3	2702.9
40°	171.9	191.4	208.8	217.0	224.1	256.9	624.3	2245.4	3183.9	3267.9	2883.0
42.5°	159.7	181.2	196.5	207.8	213.9	250.7	581.3	2499.3	3476.6	3554.4	3118.4
45°	146.4	171.9	184.2	192.4	204.7	254.8	526.1	2695.8	3811.3	3945.4	3506.3
47.5°	133.0	161.7	171.9	178.1	194.5	279.4	505.6	2826.8	4363.0	4641.3	4160.3
50°	120.8	152.5	163.8	162.7	192.4	311.1	528.1	2926.0	5191.9	5519.4	5056.8
52.5°	107.5	142.3	155.6	151.5	207.8	335.7	573.1	3004.8	5829.6	6549.0	6261.4
55°	96.2	131.0	143.3	142.3	236.4	354.1	607.9	2589.3	6093.6	7506.0	7618.5
57.5°	88.0	118.7	129.0	146.4	254.8	354.1	703.1	1838.1	6098.7	8210.1	9419.8
60°	80.9	107.5	114.6	160.7	247.7	335.7	695.9	1125.8	5620.8	8162.0	10377.7
62.5°	74.7	97.2	106.4	164.8	219.0	332.6	628.4	698.0	4793.8	7540.8	9682.8
65°	69.6	89.0	102.3	151.5	198.5	356.2	423.7	501.5	3888.1	6832.5	8885.6
67.5°	64.5	81.9	108.5	123.8	180.1	318.3	306.0	356.2	3051.9	6055.7	8153.8
70°	60.4	77.8	114.6	101.3	157.6	248.7	217.0	270.2	2336.5	5052.8	7123.2
72.5°	57.3	72.7	96.2	79.8	127.9	192.4	151.5	196.5	1527.0	3944.4	5807.0
75°	54.2	66.5	70.6	64.5	95.2	125.9	114.6	132.0	909.8	2883.0	4405.9
77.5°	53.2	62.4	57.3	52.2	64.5	74.7	87.0	89.0	444.2	1442.0	2308.9
80°	47.1	56.3	49.1	43.0	44.0	49.1	64.5	59.4	101.3	366.4	616.1
82.5°	36.8	44.0	40.9	35.8	35.8	35.8	43.0	39.9	32.8	164.8	278.4
85°	25.6	30.7	30.7	28.7	27.6	27.6	26.6	25.6	9.2	10.2	15.4
87.5°	17.4	21.5	22.5	21.5	18.4	16.4	14.3	12.3	4.1	0.0	2.0
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-SA4B-735-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3	448.3
2.5°	474.9	477.9	477.9	473.9	470.8	462.6	454.4	446.2	444.2	443.2
5°	474.9	487.2	493.3	492.3	485.1	471.8	454.4	436.0	430.9	428.8
7.5°	467.7	491.3	509.7	512.7	499.4	475.9	444.2	416.5	409.4	406.3
10°	484.1	530.1	567.0	572.1	556.8	510.7	459.5	412.4	401.2	394.0
12.5°	572.1	647.8	692.9	714.4	684.7	626.3	541.4	457.5	431.9	420.6
15°	750.2	857.6	943.6	943.6	916.0	812.6	705.2	569.0	534.2	503.5
17.5°	978.4	1113.5	1189.2	1181.1	1139.1	1066.4	937.5	742.0	671.4	639.7
20°	1238.4	1319.2	1336.6	1331.5	1313.1	1271.1	1182.1	972.3	877.1	828.0
22.5°	1463.5	1442.0	1416.4	1396.0	1390.9	1403.1	1390.9	1229.2	1154.4	1067.5
25°	1616.0	1494.2	1417.5	1380.6	1398.0	1468.6	1545.4	1485.0	1425.7	1335.6
27.5°	1698.9	1488.1	1377.6	1339.7	1369.4	1469.7	1636.5	1738.8	1677.4	1634.4
30°	1744.0	1483.0	1352.0	1315.1	1360.2	1486.0	1699.9	1976.3	1978.3	1909.8
32.5°	1808.4	1515.7	1357.1	1323.3	1383.7	1535.2	1779.8	2217.8	2277.2	2240.3
35°	1881.1	1565.9	1380.6	1349.9	1424.6	1600.7	1868.8	2461.4	2585.2	2572.9
37.5°	1949.7	1622.2	1435.9	1406.2	1487.1	1657.0	1954.8	2700.9	2872.8	2915.8
40°	2021.3	1701.0	1605.8	1634.4	1679.5	1746.0	2031.5	2908.6	3189.1	3253.5
42.5°	2190.2	1974.2	2119.6	2173.8	2179.9	2042.8	2199.4	3174.7	3500.2	3576.9
45°	2566.8	2460.4	2876.9	2953.7	2913.8	2498.2	2603.6	3558.5	3935.2	3974.0
47.5°	3042.7	3091.8	3913.7	4178.7	3939.2	3035.5	3093.9	4366.0	4731.4	4717.1
50°	3597.4	3829.7	5090.6	5715.9	5142.8	3733.5	3658.8	5358.8	5801.9	5757.9
52.5°	4253.4	4687.4	6505.0	7393.4	6851.0	4518.5	4487.8	6673.9	6944.1	6803.9
55°	5079.4	5515.4	8132.3	9373.7	8602.1	5476.5	5581.9	8198.8	8251.0	7805.8
57.5°	6311.6	6595.1	10050.2	11644.8	10429.9	6778.3	7542.8	10228.3	9604.0	8760.7
60°	8548.8	7983.9	11903.7	13968.0	12374.5	8609.2	10129.0	11430.9	10054.3	8891.7
62.5°	9327.7	9162.9	13064.3	14950.5	13682.5	10112.7	10801.5	10749.3	9471.0	8396.4
65°	8147.7	8869.2	12856.5	14431.6	13514.6	9865.0	9693.1	9997.0	8813.9	7644.1
67.5°	7526.4	8179.4	12069.5	12999.8	12584.3	9024.8	8639.9	8557.0	7399.5	6468.2
70°	6900.1	7546.9	10928.4	11044.0	10850.6	7655.4	7149.8	6594.1	5530.7	4721.2
72.5°	6146.8	6503.0	9345.1	8796.5	8577.5	6012.7	5906.3	4965.8	4146.0	3451.1
75°	5360.8	5257.4	7285.9	6037.3	6201.1	4678.2	4988.3	3646.5	3037.6	2483.9
77.5°	3899.3	3822.6	4879.8	3667.0	4061.0	3064.2	2753.1	1455.3	1385.7	1195.4
80°	2175.8	2623.1	2635.4	2055.1	2563.7	1997.8	688.8	48.1	30.7	45.0
82.5°	1011.2	1127.8	1428.7	952.8	1462.5	989.7	142.3	0.0	0.0	0.0
85°	327.5	479.0	401.2	140.2	354.1	334.7	23.5	0.0	0.0	0.0
87.5°	19.4	39.9	10.2	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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