

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: P637055

Luminaire Tested: GWS-SA4C-722-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637055  
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-SA4C-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

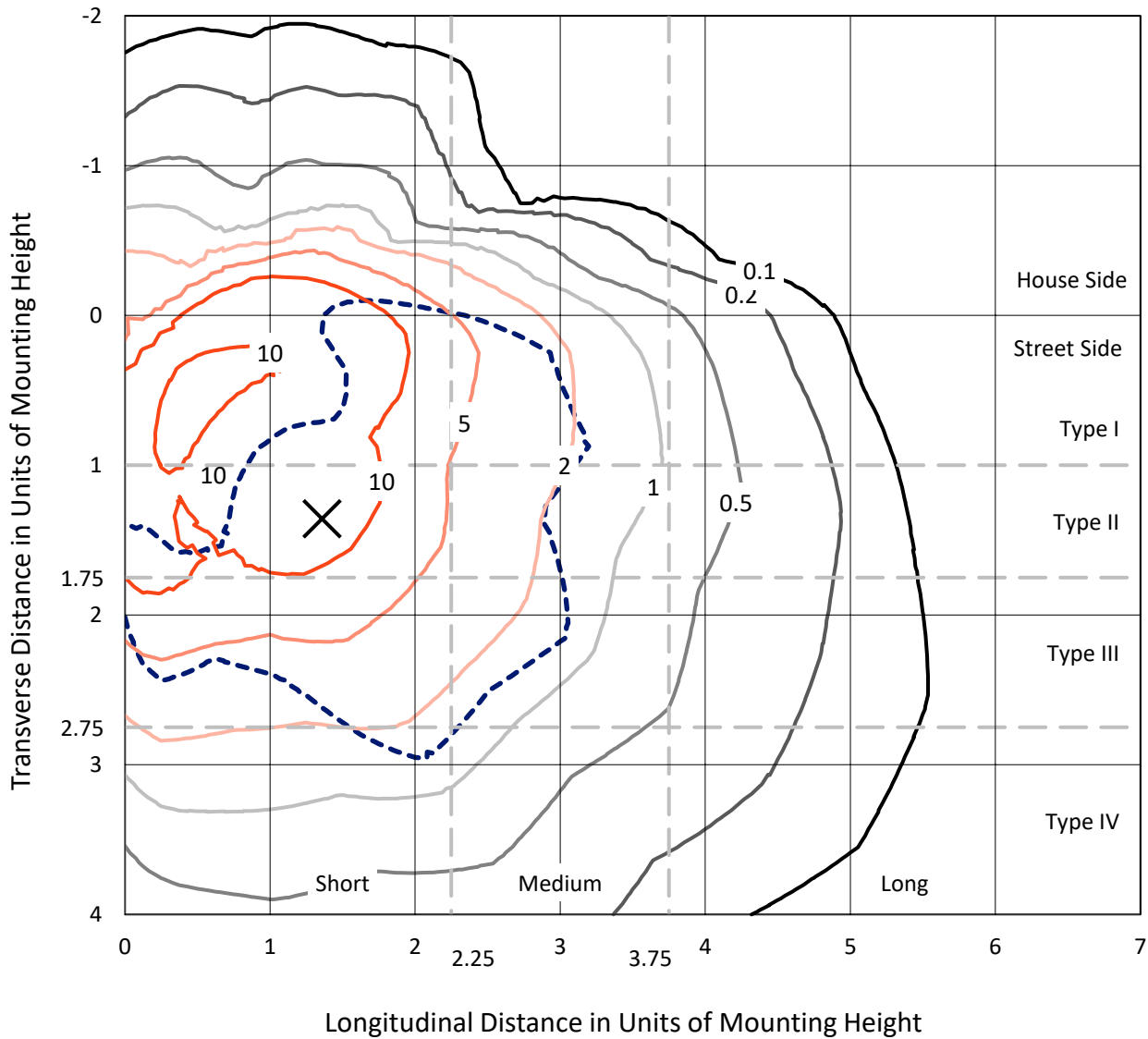
Lumens per Lamp: N/A  
Luminaire Lumens: 8873.6 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

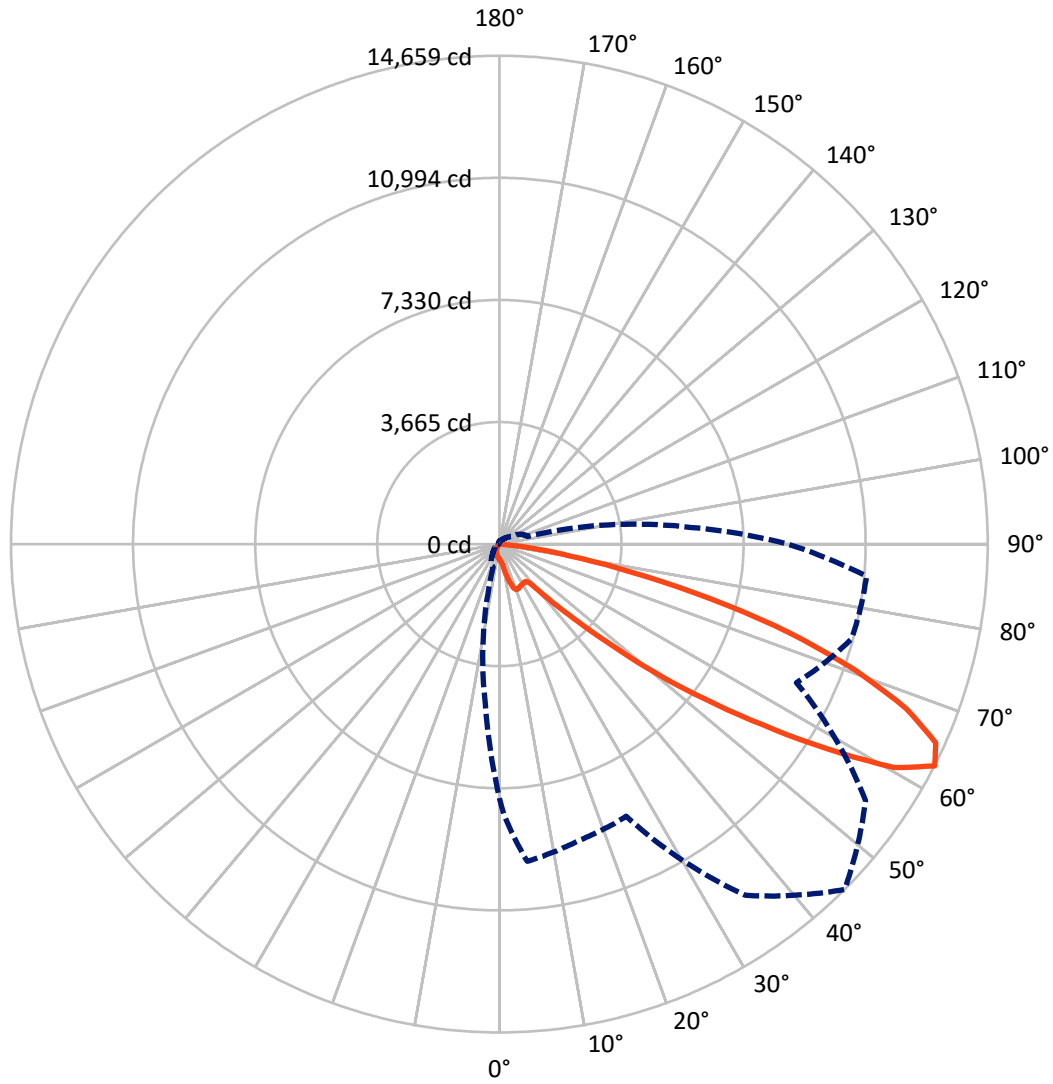
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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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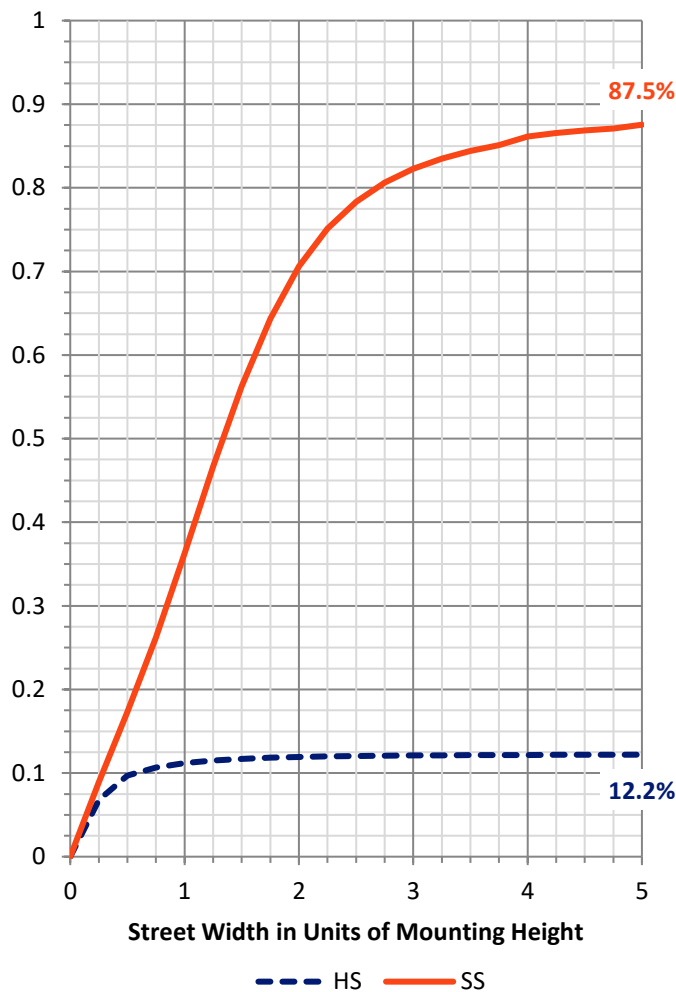
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1095.0	0.0	1095.0
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7778.6	0.0	7778.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8873.6	0.0	8873.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.9	0.5
10°-20°	154.7	1.7
20°-30°	336.3	3.8
30°-40°	552.0	6.2
40°-50°	1014.8	11.4
50°-60°	2179.2	24.6
60°-70°	2927.0	33.0
70°-80°	1524.1	17.2
80°-90°	144.5	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°	8873.6	100.0
0°-180°	8873.6	100.0

**Coefficient of Utilization**

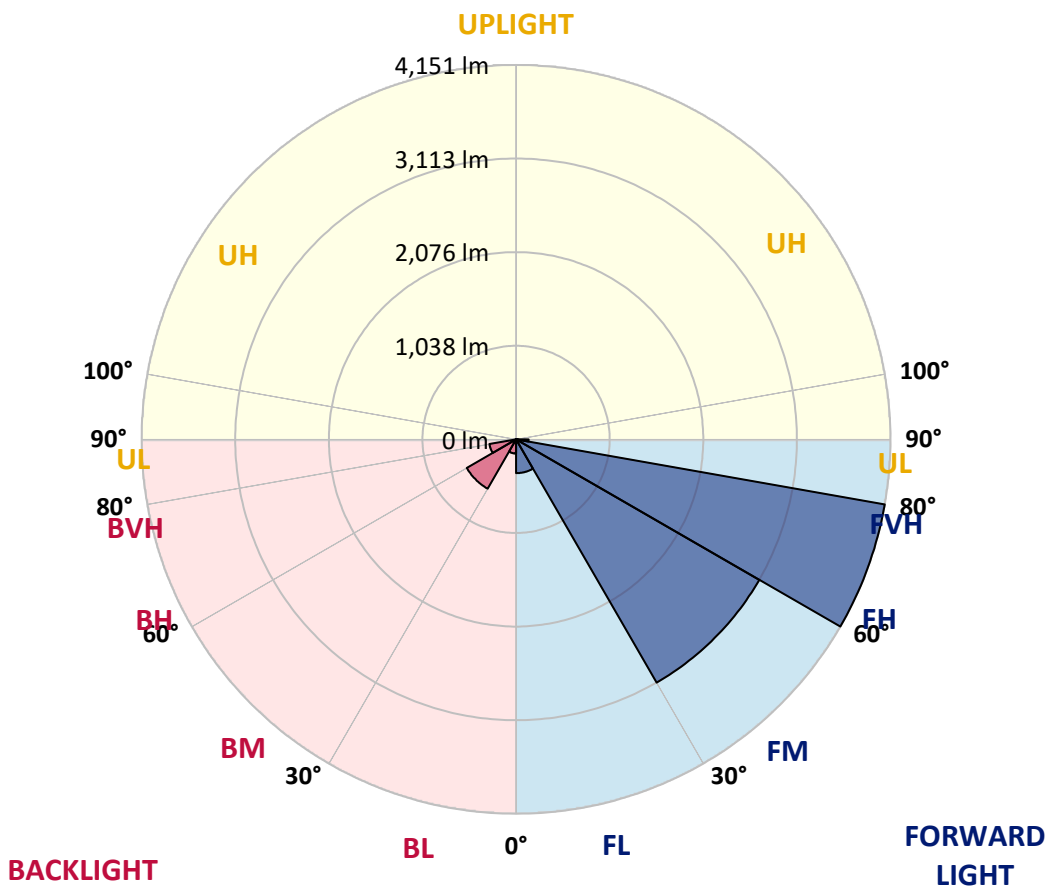


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.9	4.2			
FM (30°-60°)	3114.5	35.1			
FH (60°-80°)	4151.1	46.8			G2/5000
FVH (80°-90°)	138.1	1.6			G2/225
BL (0°-30°)	157.1	1.8	B1/500		
BM (30°-60°)	631.4	7.1	B1/1000		
BH (60°-80°)	300.0	3.4	B1/500		G1/500
BVH (80°-90°)	6.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	470.5	472.5	474.6	481.7	486.9	491.0	492.0	488.9	481.7	474.6	464.3
5°	456.1	458.2	465.3	484.8	504.3	519.7	524.8	521.7	504.3	481.7	458.2
7.5°	455.1	459.2	476.6	517.6	559.6	591.4	599.6	592.4	559.6	514.5	466.4
10°	492.0	499.2	524.8	598.6	675.5	731.8	754.4	723.6	671.4	589.4	510.4
12.5°	588.3	600.6	649.8	757.5	876.4	951.2	981.9	944.0	862.0	743.1	618.1
15°	740.0	758.5	832.3	993.2	1133.6	1200.3	1210.5	1189.0	1093.7	962.5	794.4
17.5°	954.3	980.9	1095.7	1259.7	1361.2	1384.7	1381.7	1359.1	1289.4	1199.2	1040.4
20°	1210.5	1242.3	1355.0	1490.3	1500.6	1472.9	1457.5	1444.2	1420.6	1405.2	1281.2
22.5°	1468.8	1507.7	1625.6	1659.4	1567.2	1487.2	1449.3	1459.6	1494.4	1570.3	1520.0
25°	1726.1	1763.0	1873.7	1782.4	1597.9	1464.7	1416.5	1441.1	1524.1	1688.1	1752.7
27.5°	2026.4	2054.1	2119.7	1866.5	1603.1	1446.2	1399.1	1437.0	1538.5	1761.9	2007.9
30°	2339.0	2355.4	2323.6	1889.0	1585.6	1418.6	1381.7	1437.0	1563.1	1811.1	2199.6
32.5°	2568.6	2571.7	2468.2	1891.1	1576.4	1396.0	1365.3	1430.9	1586.7	1852.1	2385.1
35°	2805.4	2790.0	2606.5	1921.8	1601.0	1404.2	1377.6	1448.3	1623.6	1900.3	2548.1
37.5°	3045.2	3017.5	2761.3	1972.1	1664.6	1493.4	1477.0	1537.5	1683.0	1966.9	2727.5
40°	3291.2	3253.3	2922.2	2047.9	1806.0	1796.8	1853.2	1846.0	1846.0	2052.0	2912.0
42.5°	3591.5	3547.5	3160.0	2262.1	2136.1	2342.1	2495.8	2400.5	2224.2	2247.8	3151.8
45°	3988.2	3950.3	3572.1	2672.1	2653.7	3127.2	3334.3	3145.7	2707.0	2699.8	3552.6
47.5°	4622.7	4615.5	4229.1	3147.7	3287.1	4126.6	4526.3	4163.5	3257.4	3178.5	4311.1
50°	5514.4	5492.9	5048.0	3705.3	4040.5	5364.8	6078.1	5473.4	3922.6	3737.1	5326.8
52.5°	6518.9	6541.4	6195.0	4314.1	4841.0	6742.3	7735.5	6974.0	4645.2	4447.4	6605.0
55°	7464.9	7594.1	7502.9	5026.5	5623.0	8263.4	9555.9	8620.1	5540.0	5377.1	8037.9
57.5°	8205.0	8568.8	9208.4	6061.7	6542.5	10042.8	11588.4	10404.6	6584.5	6886.8	9988.4
60°	8246.0	8727.7	10212.9	8227.5	7725.3	11569.0	13617.9	12148.1	8226.5	9450.3	11516.7
62.5°	7627.9	8144.5	9559.0	9211.5	9013.7	12867.6	14659.3	13419.1	9841.9	10951.9	11063.6
65°	6920.7	7442.4	8829.2	8095.3	8864.0	12812.3	14394.8	13448.8	9988.4	9931.0	10252.9
67.5°	5851.6	6320.0	7575.6	7165.6	8170.1	12194.2	13173.1	12601.1	9202.3	9288.4	9431.9
70°	4271.1	4722.1	5887.5	5908.0	7134.9	11080.0	11318.9	11239.9	8474.5	8565.8	8155.8
72.5°	3085.2	3465.5	4471.0	4845.1	5695.8	9291.5	9126.4	9430.9	7271.2	7628.9	6550.7
75°	2218.1	2503.0	3279.9	4214.7	4515.0	6900.2	6533.2	7304.0	5834.2	6569.1	4925.0
77.5°	899.9	1000.4	1290.5	2839.2	2967.3	4642.1	3999.5	5305.3	4159.4	4316.2	2387.2
80°	36.9	41.0	53.3	1465.7	2034.6	2611.7	2140.2	2836.1	2746.9	1738.4	563.7
82.5°	4.1	4.1	9.2	422.3	890.7	1441.1	1008.6	1633.8	1390.9	737.0	256.2
85°	1.0	1.0	2.0	48.2	209.1	230.6	136.3	501.2	646.8	301.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	9.2	10.2	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°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	464.3	459.2	453.0	446.9	443.8	435.6	432.5	430.5	428.4	429.5	429.5
5°	448.9	437.7	424.3	411.0	403.8	395.6	391.5	389.5	390.5	394.6	394.6
7.5°	446.9	425.4	396.7	379.2	371.0	364.9	360.8	358.7	359.8	364.9	366.9
10°	480.7	442.8	391.5	361.8	352.6	346.4	342.3	339.3	337.2	341.3	342.3
12.5°	553.5	501.2	416.1	359.8	343.4	335.2	332.1	325.9	322.9	324.9	325.9
15°	704.2	614.0	465.3	368.0	335.2	325.9	320.8	315.7	310.6	309.5	310.6
17.5°	901.0	771.8	540.2	387.4	329.0	317.7	310.6	303.4	296.2	295.2	294.2
20°	1144.9	965.5	644.7	418.2	323.9	310.6	300.3	290.1	280.8	277.8	277.8
22.5°	1367.3	1199.2	779.0	456.1	316.7	300.3	288.0	275.7	265.5	260.3	259.3
25°	1638.9	1447.3	939.9	500.2	306.5	287.0	273.7	261.4	251.1	245.0	242.9
27.5°	1912.6	1708.6	1122.4	557.6	294.2	273.7	261.4	250.1	238.8	231.6	229.6
30°	2178.1	1990.5	1327.4	629.3	284.9	260.3	250.1	238.8	228.6	217.3	214.2
32.5°	2463.0	2278.5	1556.9	709.3	277.8	251.1	239.8	229.6	216.3	206.0	200.9
35°	2737.7	2575.8	1810.1	787.2	270.6	242.9	230.6	220.4	206.0	194.7	187.6
37.5°	3014.5	2878.1	2074.6	834.3	260.3	231.6	220.4	212.2	195.8	182.4	174.2
40°	3307.6	3190.8	2360.5	814.9	251.1	219.3	213.2	204.0	185.5	170.1	159.9
42.5°	3629.5	3489.0	2651.6	740.0	242.9	209.1	202.9	193.7	176.3	157.8	144.5
45°	4034.3	3816.0	2890.4	627.3	247.0	198.8	186.5	184.5	168.1	144.5	128.1
47.5°	4730.3	4318.2	3076.0	554.5	274.7	187.6	173.2	178.3	160.9	131.2	112.7
50°	5795.2	5150.5	3249.2	549.4	316.7	182.4	160.9	174.2	153.7	117.9	99.4
52.5°	6810.0	5996.1	3359.9	594.5	353.6	195.8	148.6	169.1	148.6	108.6	90.2
55°	7780.6	6484.0	3162.1	627.3	388.5	235.7	139.4	160.9	142.5	103.5	87.1
57.5°	8827.1	6701.3	2489.7	693.9	413.1	269.6	141.4	148.6	134.3	100.4	86.1
60°	9139.8	6423.6	1502.6	781.0	399.7	279.8	156.8	132.2	123.0	94.3	83.0
62.5°	8653.9	5764.5	886.6	711.3	388.5	264.4	179.4	122.0	111.7	86.1	76.9
65°	7927.2	4869.7	578.1	600.6	412.0	235.7	190.6	116.8	101.5	77.9	67.6
67.5°	7097.0	3922.6	404.9	354.6	380.3	212.2	160.9	115.8	91.2	65.6	55.3
70°	5977.7	2937.6	284.9	234.7	316.7	188.6	125.0	112.7	79.9	53.3	43.0
72.5°	4618.6	1838.8	212.2	151.7	225.5	153.7	99.4	95.3	64.6	44.1	32.8
75°	3406.0	1048.6	149.6	109.7	148.6	116.8	73.8	67.6	55.3	42.0	29.7
77.5°	1778.3	524.8	93.3	84.0	85.1	72.8	53.3	49.2	51.2	42.0	27.7
80°	341.3	104.5	56.4	61.5	46.1	46.1	38.9	41.0	45.1	33.8	23.6
82.5°	142.5	22.5	30.7	34.8	28.7	31.8	31.8	32.8	31.8	24.6	17.4
85°	0.0	0.0	13.3	14.3	19.5	19.5	16.4	16.4	16.4	14.3	10.2
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	6.1	7.2	8.2	6.1	4.1
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°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	428.4	426.4	429.5	431.5	433.6	433.6	431.5	429.5	426.4	429.5	426.4
5°	395.6	398.7	403.8	405.9	407.9	403.8	401.8	395.6	390.5	391.5	389.5
7.5°	370.0	373.1	379.2	383.3	383.3	381.3	375.1	369.0	360.8	360.8	359.8
10°	346.4	350.5	357.7	362.8	364.9	362.8	356.7	348.5	341.3	341.3	338.2
12.5°	327.0	332.1	340.3	347.5	349.5	347.5	341.3	333.1	324.9	324.9	322.9
15°	310.6	316.7	325.9	334.1	337.2	334.1	327.0	316.7	308.5	309.5	306.5
17.5°	295.2	300.3	312.6	321.8	324.9	321.8	312.6	299.3	291.1	293.1	291.1
20°	277.8	283.9	296.2	306.5	309.5	306.5	296.2	281.9	273.7	273.7	274.7
22.5°	259.3	265.5	277.8	284.9	289.0	286.0	275.7	262.4	254.2	254.2	255.2
25°	242.9	246.0	255.2	262.4	263.4	260.3	252.1	241.9	235.7	238.8	239.8
27.5°	227.5	227.5	231.6	235.7	234.7	231.6	228.6	220.4	219.3	222.4	225.5
30°	211.1	206.0	204.0	200.9	199.9	198.8	201.9	201.9	204.0	208.1	211.1
32.5°	196.8	186.5	177.3	168.1	163.0	167.1	175.3	182.4	189.6	195.8	198.8
35°	180.4	164.0	148.6	136.3	128.1	134.3	147.6	160.9	173.2	181.4	186.5
37.5°	164.0	140.4	122.0	106.6	100.4	105.6	119.9	138.4	156.8	167.1	174.2
40°	146.6	116.8	95.3	83.0	76.9	82.0	96.3	114.8	139.4	152.7	161.9
42.5°	129.1	96.3	76.9	64.6	61.5	64.6	75.8	94.3	120.9	137.3	149.6
45°	111.7	79.9	61.5	52.3	49.2	52.3	61.5	76.9	103.5	122.0	136.3
47.5°	96.3	67.6	51.2	43.0	41.0	44.1	51.2	64.6	87.1	105.6	122.0
50°	84.0	59.4	44.1	36.9	34.8	37.9	44.1	54.3	73.8	90.2	107.6
52.5°	75.8	55.3	38.9	31.8	30.7	32.8	37.9	46.1	62.5	76.9	93.3
55°	73.8	55.3	35.9	28.7	27.7	29.7	33.8	40.0	54.3	66.6	81.0
57.5°	75.8	59.4	33.8	24.6	23.6	25.6	29.7	34.8	47.1	57.4	70.7
60°	75.8	60.5	29.7	19.5	18.4	20.5	24.6	30.7	42.0	50.2	61.5
62.5°	68.7	55.3	24.6	15.4	13.3	15.4	20.5	25.6	36.9	45.1	54.3
65°	59.4	47.1	20.5	11.3	9.2	11.3	16.4	21.5	31.8	38.9	49.2
67.5°	48.2	35.9	15.4	8.2	6.1	8.2	12.3	17.4	26.6	33.8	44.1
70°	35.9	25.6	12.3	7.2	6.1	7.2	11.3	16.4	23.6	30.7	41.0
72.5°	26.6	17.4	10.2	7.2	5.1	7.2	10.2	15.4	22.5	29.7	38.9
75°	22.5	14.3	9.2	6.1	5.1	6.1	9.2	14.3	20.5	27.7	36.9
77.5°	21.5	13.3	8.2	5.1	4.1	5.1	8.2	12.3	18.4	25.6	35.9
80°	18.4	11.3	7.2	4.1	3.1	4.1	7.2	10.2	14.3	19.5	27.7
82.5°	14.3	9.2	5.1	2.0	1.0	2.0	5.1	6.1	9.2	11.3	16.4
85°	9.2	5.1	2.0	0.0	0.0	0.0	2.0	4.1	4.1	5.1	8.2
87.5°	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	3.1
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-SA4C-722-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2	461.2
2.5°	432.5	433.6	435.6	438.7	445.9	452.0	458.2	466.4	470.5	470.5
5°	391.5	392.6	393.6	397.7	407.9	416.1	429.5	445.9	454.1	456.1
7.5°	359.8	361.8	363.9	366.9	377.2	388.5	405.9	436.6	452.0	455.1
10°	341.3	344.4	348.5	354.6	363.9	376.2	405.9	461.2	486.9	492.0
12.5°	327.0	332.1	336.2	343.4	354.6	374.1	433.6	530.9	576.0	588.3
15°	312.6	318.8	324.9	332.1	344.4	381.3	486.9	656.0	730.8	740.0
17.5°	298.3	305.4	313.6	321.8	337.2	398.7	570.9	829.2	933.8	954.3
20°	281.9	291.1	302.4	312.6	330.0	426.4	687.8	1035.2	1166.4	1210.5
22.5°	264.4	275.7	289.0	302.4	321.8	460.2	829.2	1256.6	1440.1	1468.8
25°	250.1	261.4	273.7	287.0	308.5	501.2	1000.4	1531.3	1698.4	1726.1
27.5°	236.8	248.0	259.3	271.6	295.2	554.5	1206.4	1823.4	1997.7	2026.4
30°	222.4	235.7	247.0	259.3	282.9	620.1	1444.2	2147.3	2312.4	2339.0
32.5°	210.1	223.4	234.7	247.0	273.7	691.9	1694.3	2434.3	2568.6	2568.6
35°	199.9	214.2	222.4	238.8	266.5	738.0	1931.1	2708.0	2809.5	2805.4
37.5°	188.6	206.0	212.2	223.4	257.3	743.1	2153.5	2997.0	3071.9	3045.2
40°	177.3	195.8	205.0	211.1	247.0	701.1	2397.4	3262.5	3326.1	3291.2
42.5°	167.1	181.4	194.7	201.9	240.9	627.3	2593.2	3546.4	3622.3	3591.5
45°	156.8	169.1	177.3	190.6	245.0	576.0	2761.3	3877.5	4010.8	3988.2
47.5°	146.6	156.8	161.9	182.4	272.6	552.5	2863.8	4390.0	4641.1	4622.7
50°	135.3	147.6	147.6	180.4	313.6	560.7	2953.0	5132.1	5520.5	5514.4
52.5°	124.0	137.3	135.3	195.8	345.4	598.6	3054.4	5787.0	6462.5	6518.9
55°	112.7	125.0	127.1	226.5	363.9	631.4	2661.9	6062.8	7267.1	7464.9
57.5°	100.4	107.6	132.2	250.1	357.7	726.7	1823.4	6113.0	7780.6	8205.0
60°	87.1	93.3	149.6	245.0	338.2	671.4	1148.0	5662.0	7707.9	8246.0
62.5°	75.8	86.1	157.8	216.3	344.4	582.2	731.8	4825.6	7013.9	7627.9
65°	66.6	83.0	143.5	195.8	348.5	394.6	494.0	3925.7	6336.4	6920.7
67.5°	59.4	92.2	117.9	174.2	299.3	277.8	339.3	3050.3	5327.9	5851.6
70°	54.3	94.3	96.3	149.6	231.6	178.3	223.4	2053.0	3672.5	4271.1
72.5°	49.2	69.7	72.8	119.9	149.6	108.6	144.5	1174.6	2677.3	3085.2
75°	47.1	47.1	50.2	77.9	83.0	78.9	93.3	701.1	1919.8	2218.1
77.5°	44.1	35.9	31.8	50.2	45.1	56.4	55.3	311.6	832.3	899.9
80°	34.8	25.6	21.5	31.8	30.7	37.9	32.8	25.6	37.9	36.9
82.5°	21.5	16.4	15.4	19.5	17.4	19.5	15.4	4.1	4.1	4.1
85°	10.2	9.2	8.2	8.2	9.2	8.2	6.1	2.0	1.0	1.0
87.5°	5.1	5.1	4.1	3.1	4.1	4.1	3.1	1.0	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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