

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: P637715

Luminaire Tested: GWS-SA4D-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637715  
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-SA4D-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**

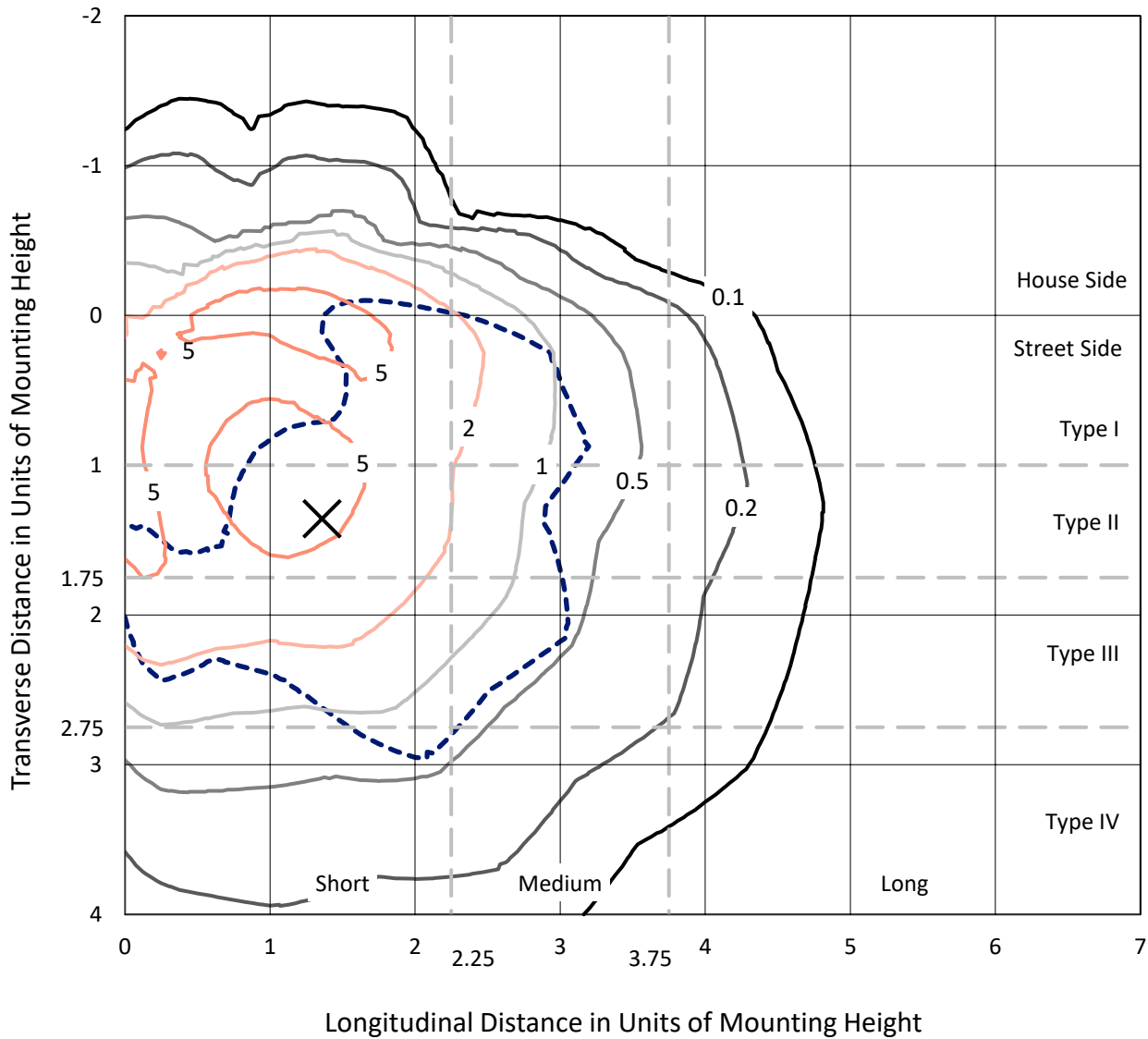
Lumens per Lamp: N/A  
Luminaire Lumens: 14989.5 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

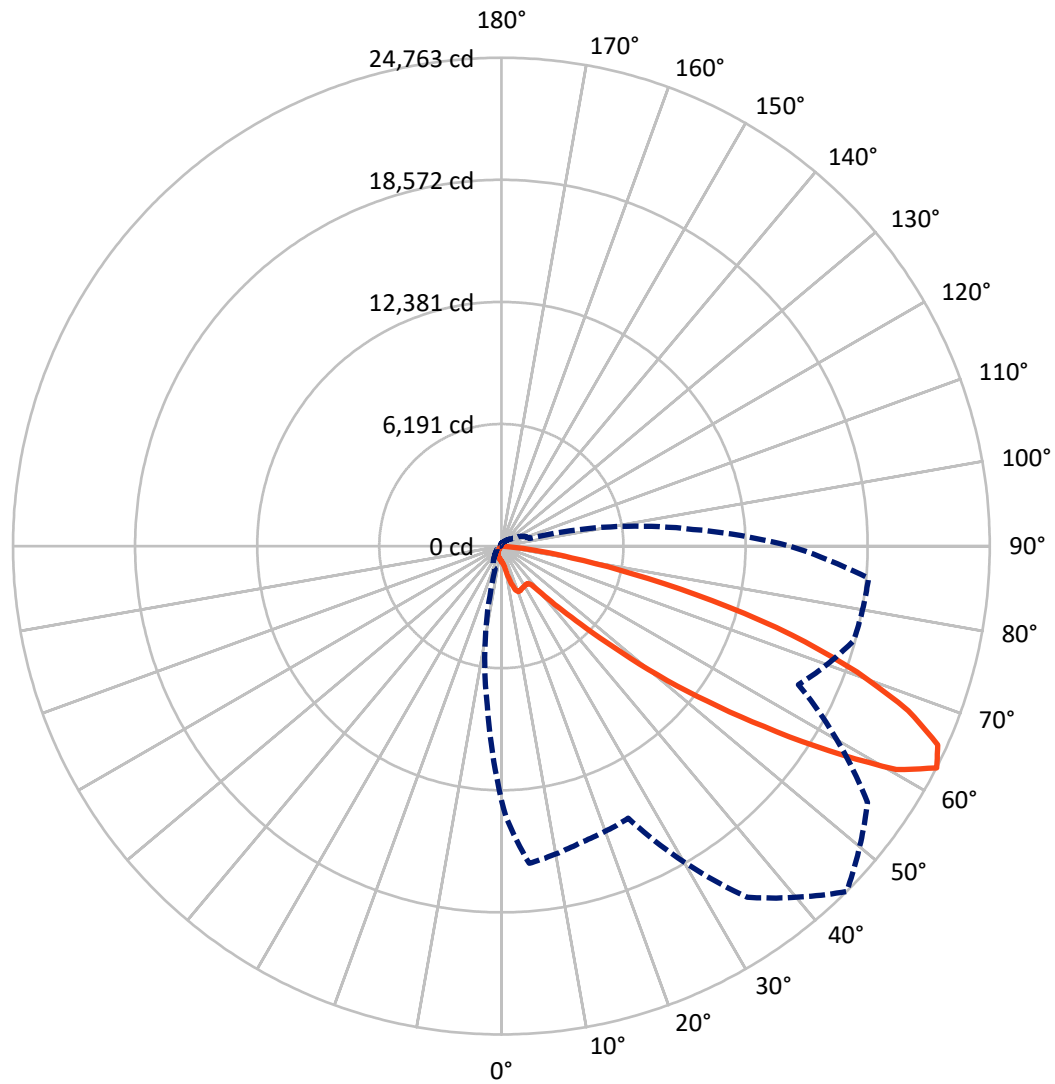
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 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	1849.7	0.0	1849.7
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	13139.8	0.0	13139.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	14989.5	0.0	14989.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.1	0.5
10°-20°	261.3	1.7
20°-30°	568.1	3.8
30°-40°	932.4	6.2
40°-50°	1714.2	11.4
50°-60°	3681.2	24.6
60°-70°	4944.4	33.0
70°-80°	2574.6	17.2
80°-90°	244.1	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°	14989.5	100.0
0°-180°	14989.5	100.0

**Coefficient of Utilization**

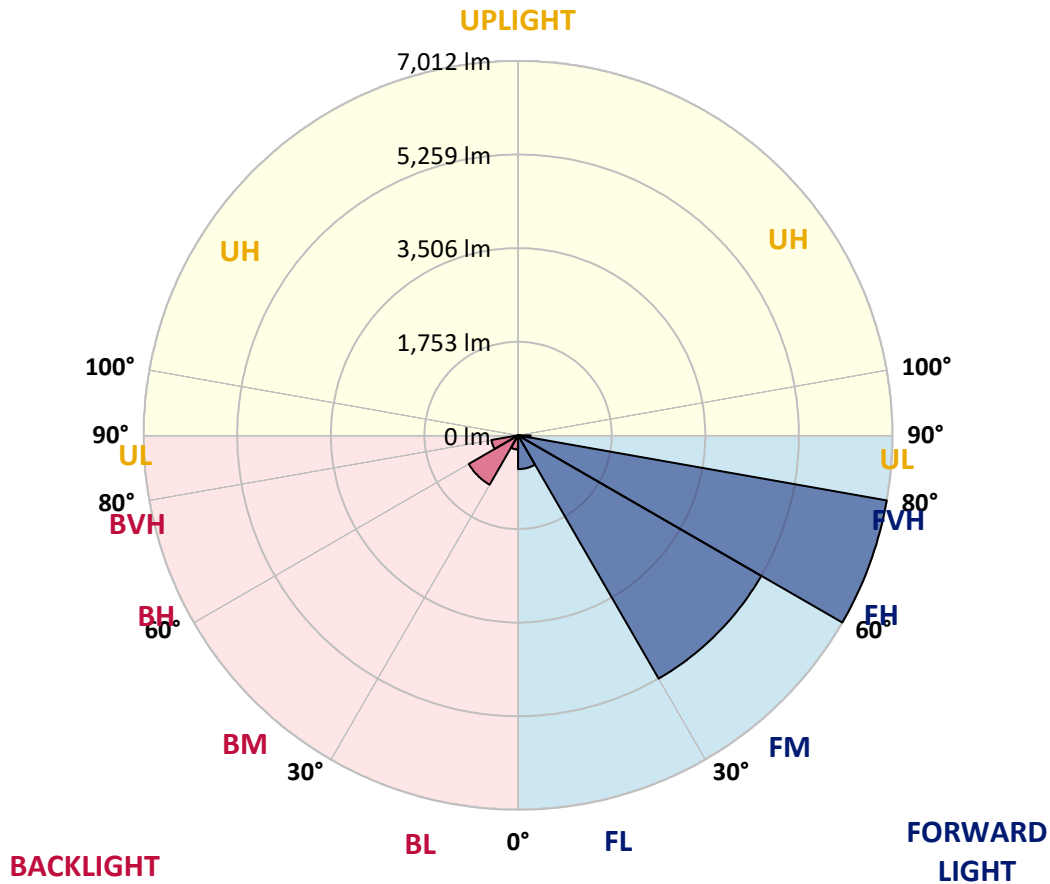


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	633.2	4.2			
FM (30°-60°)	5261.1	35.1			
FH (60°-80°)	7012.2	46.8			G3/7500
FVH (80°-90°)	233.2	1.6			G3/500
BL (0°-30°)	265.3	1.8	B1/500		
BM (30°-60°)	1066.7	7.1	B2/2500		
BH (60°-80°)	506.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.9	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1
2.5°	794.7	798.2	801.6	813.8	822.4	829.4	831.1	825.9	813.8	801.6	784.3
5°	770.5	773.9	786.1	819.0	851.9	877.8	886.5	881.3	851.9	813.8	773.9
7.5°	768.8	775.7	805.1	874.4	945.4	999.0	1012.9	1000.8	945.4	869.2	787.8
10°	831.1	843.2	886.5	1011.2	1141.0	1236.2	1274.3	1222.4	1134.1	995.6	862.2
12.5°	993.8	1014.6	1097.7	1279.5	1480.4	1606.8	1658.7	1594.6	1456.1	1255.3	1044.0
15°	1250.1	1281.3	1405.9	1677.7	1915.0	2027.5	2044.8	2008.5	1847.4	1625.8	1341.9
17.5°	1612.0	1657.0	1850.9	2127.9	2299.3	2339.2	2334.0	2295.9	2178.1	2025.8	1757.4
20°	2044.8	2098.5	2288.9	2517.5	2534.8	2488.1	2462.1	2439.6	2399.8	2373.8	2164.3
22.5°	2481.1	2546.9	2746.0	2803.2	2647.3	2512.3	2448.2	2465.5	2524.4	2652.5	2567.7
25°	2915.7	2978.0	3165.0	3010.9	2699.3	2474.2	2392.8	2434.4	2574.6	2851.7	2960.7
27.5°	3423.0	3469.8	3580.6	3152.9	2707.9	2443.0	2363.4	2427.5	2598.9	2976.3	3391.9
30°	3951.1	3978.8	3925.1	3191.0	2678.5	2396.3	2334.0	2427.5	2640.4	3059.4	3715.6
32.5°	4338.9	4344.1	4169.3	3194.5	2662.9	2358.2	2306.3	2417.1	2680.2	3128.7	4029.0
35°	4738.9	4712.9	4403.0	3246.4	2704.5	2372.0	2327.0	2446.5	2742.6	3210.1	4304.3
37.5°	5144.1	5097.3	4664.5	3331.3	2811.8	2522.7	2495.0	2597.1	2843.0	3322.6	4607.3
40°	5559.6	5495.5	4936.3	3459.4	3050.8	3035.2	3130.4	3118.3	3118.3	3466.3	4919.0
42.5°	6066.9	5992.5	5338.0	3821.3	3608.3	3956.3	4216.0	4055.0	3757.2	3797.0	5324.1
45°	6737.0	6672.9	6034.0	4513.8	4482.7	5282.6	5632.3	5313.7	4572.7	4560.6	6001.1
47.5°	7808.7	7796.6	7143.9	5317.2	5552.7	6970.7	7646.0	7033.0	5502.5	5369.1	7282.4
50°	9315.1	9278.7	8527.3	6259.1	6825.3	9062.3	10267.3	9245.8	6626.2	6312.8	8998.2
52.5°	11011.8	11049.9	10464.7	7287.6	8177.5	11389.3	13067.0	11780.6	7846.8	7512.6	11157.3
55°	12610.0	12828.1	12674.0	8490.9	9498.6	13958.7	16142.1	14561.3	9358.3	9083.0	13577.8
57.5°	13860.0	14474.7	15555.1	10239.6	11051.7	16964.5	19575.5	17575.7	11122.7	11633.4	16872.7
60°	13929.3	14743.1	17251.9	13898.1	13049.7	19542.6	23003.7	20520.8	13896.4	15963.7	19454.3
62.5°	12885.2	13757.9	16147.2	15560.3	15226.1	21736.3	24762.8	22667.8	16625.1	18500.3	18689.0
65°	11690.6	12571.9	14914.5	13674.8	14973.3	21642.8	24316.1	22718.0	16872.7	16775.8	17319.4
67.5°	9884.7	10676.0	12796.9	12104.4	13801.2	20598.7	22252.2	21286.1	15544.7	15690.2	15932.6
70°	7214.8	7976.7	9945.3	9979.9	12052.4	18716.7	19120.1	18986.8	14315.4	14469.5	13776.9
72.5°	5211.6	5853.9	7552.5	8184.4	9621.5	15695.3	15416.6	15930.8	12282.7	12887.0	11065.5
75°	3746.8	4228.1	5540.6	7119.6	7626.9	11655.9	11036.1	12338.1	9855.3	11096.7	8319.5
77.5°	1520.2	1689.9	2179.9	4796.0	5012.5	7841.6	6756.0	8961.8	7026.1	7291.0	4032.5
80°	62.3	69.3	90.0	2475.9	3436.9	4411.7	3615.2	4790.8	4640.2	2936.5	952.3
82.5°	6.9	6.9	15.6	713.3	1504.6	2434.4	1703.7	2759.9	2349.5	1244.9	432.9
85°	1.7	1.7	3.5	81.4	353.2	389.6	230.3	846.7	1092.5	509.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	15.6	17.3	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°	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1
2.5°	784.3	775.7	765.3	754.9	749.7	735.9	730.7	727.2	723.7	725.5	725.5
5°	758.4	739.3	716.8	694.3	682.2	668.3	661.4	657.9	659.7	666.6	666.6
7.5°	754.9	718.5	670.1	640.6	626.8	616.4	609.5	606.0	607.7	616.4	619.8
10°	812.0	748.0	661.4	611.2	595.6	585.2	578.3	573.1	569.6	576.6	578.3
12.5°	935.0	846.7	703.0	607.7	580.0	566.2	561.0	550.6	545.4	548.9	550.6
15°	1189.5	1037.1	786.1	621.6	566.2	550.6	541.9	533.3	524.6	522.9	524.6
17.5°	1521.9	1303.8	912.5	654.5	555.8	536.7	524.6	512.5	500.4	498.6	496.9
20°	1934.0	1631.0	1089.1	706.4	547.1	524.6	507.3	490.0	474.4	469.2	469.2
22.5°	2309.7	2025.8	1315.9	770.5	535.0	507.3	486.5	465.8	448.4	439.8	438.0
25°	2768.5	2444.8	1587.7	844.9	517.7	484.8	462.3	441.5	424.2	413.8	410.3
27.5°	3230.8	2886.3	1895.9	941.9	496.9	462.3	441.5	422.5	403.4	391.3	387.8
30°	3679.3	3362.4	2242.2	1063.1	481.3	439.8	422.5	403.4	386.1	367.1	361.9
32.5°	4160.6	3849.0	2630.0	1198.1	469.2	424.2	405.2	387.8	365.3	348.0	339.4
35°	4624.6	4351.1	3057.7	1329.7	457.1	410.3	389.6	372.3	348.0	329.0	316.9
37.5°	5092.1	4861.8	3504.4	1409.4	439.8	391.3	372.3	358.4	330.7	308.2	294.3
40°	5587.3	5389.9	3987.5	1376.5	424.2	370.5	360.1	344.6	313.4	287.4	270.1
42.5°	6131.0	5893.8	4479.2	1250.1	410.3	353.2	342.8	327.2	297.8	266.6	244.1
45°	6814.9	6446.1	4882.6	1059.6	417.3	335.9	315.1	311.7	284.0	244.1	216.4
47.5°	7990.5	7294.5	5196.0	936.7	464.0	316.9	292.6	301.3	271.8	221.6	190.5
50°	9789.5	8700.4	5488.6	928.0	535.0	308.2	271.8	294.3	259.7	199.1	167.9
52.5°	11503.6	10128.8	5675.6	1004.2	597.3	330.7	251.1	285.7	251.1	183.5	152.4
55°	13143.2	10953.0	5341.4	1059.6	656.2	398.2	235.5	271.8	240.7	174.9	147.2
57.5°	14911.0	11320.0	4205.6	1172.2	697.8	455.4	238.9	251.1	226.8	169.7	145.4
60°	15439.1	10850.8	2538.3	1319.3	675.3	472.7	264.9	223.4	207.8	159.3	140.2
62.5°	14618.4	9737.5	1497.7	1201.6	656.2	446.7	303.0	206.0	188.7	145.4	129.9
65°	13390.8	8226.0	976.5	1014.6	696.0	398.2	322.0	197.4	171.4	131.6	114.3
67.5°	11988.4	6626.2	683.9	599.1	642.4	358.4	271.8	195.7	154.1	110.8	93.5
70°	10097.7	4962.3	481.3	396.5	535.0	318.6	211.2	190.5	135.1	90.0	72.7
72.5°	7801.8	3106.2	358.4	256.3	380.9	259.7	167.9	161.0	109.1	74.5	55.4
75°	5753.5	1771.2	252.8	185.3	251.1	197.4	124.7	114.3	93.5	71.0	50.2
77.5°	3004.0	886.5	157.6	142.0	143.7	122.9	90.0	83.1	86.6	71.0	46.7
80°	576.6	176.6	95.2	103.9	77.9	77.9	65.8	69.3	76.2	57.1	39.8
82.5°	240.7	38.1	51.9	58.9	48.5	53.7	53.7	55.4	53.7	41.6	29.4
85°	0.0	0.0	22.5	24.2	32.9	32.9	27.7	27.7	27.7	24.2	17.3
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	10.4	12.1	13.9	10.4	6.9
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°	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1
2.5°	723.7	720.3	725.5	728.9	732.4	732.4	728.9	725.5	720.3	725.5	720.3
5°	668.3	673.5	682.2	685.6	689.1	682.2	678.7	668.3	659.7	661.4	657.9
7.5°	625.0	630.2	640.6	647.6	647.6	644.1	633.7	623.3	609.5	609.5	607.7
10°	585.2	592.1	604.3	612.9	616.4	612.9	602.5	588.7	576.6	576.6	571.4
12.5°	552.3	561.0	574.8	587.0	590.4	587.0	576.6	562.7	548.9	548.9	545.4
15°	524.6	535.0	550.6	564.4	569.6	564.4	552.3	535.0	521.2	522.9	517.7
17.5°	498.6	507.3	528.1	543.7	548.9	543.7	528.1	505.6	491.7	495.2	491.7
20°	469.2	479.6	500.4	517.7	522.9	517.7	500.4	476.1	462.3	462.3	464.0
22.5°	438.0	448.4	469.2	481.3	488.3	483.1	465.8	443.2	429.4	429.4	431.1
25°	410.3	415.5	431.1	443.2	445.0	439.8	425.9	408.6	398.2	403.4	405.2
27.5°	384.4	384.4	391.3	398.2	396.5	391.3	386.1	372.3	370.5	375.7	380.9
30°	356.7	348.0	344.6	339.4	337.6	335.9	341.1	341.1	344.6	351.5	356.7
32.5°	332.4	315.1	299.5	284.0	275.3	282.2	296.1	308.2	320.3	330.7	335.9
35°	304.7	277.0	251.1	230.3	216.4	226.8	249.3	271.8	292.6	306.5	315.1
37.5°	277.0	237.2	206.0	180.1	169.7	178.3	202.6	233.7	264.9	282.2	294.3
40°	247.6	197.4	161.0	140.2	129.9	138.5	162.8	193.9	235.5	258.0	273.6
42.5°	218.2	162.8	129.9	109.1	103.9	109.1	128.1	159.3	204.3	232.0	252.8
45°	188.7	135.1	103.9	88.3	83.1	88.3	103.9	129.9	174.9	206.0	230.3
47.5°	162.8	114.3	86.6	72.7	69.3	74.5	86.6	109.1	147.2	178.3	206.0
50°	142.0	100.4	74.5	62.3	58.9	64.1	74.5	91.8	124.7	152.4	181.8
52.5°	128.1	93.5	65.8	53.7	51.9	55.4	64.1	77.9	105.6	129.9	157.6
55°	124.7	93.5	60.6	48.5	46.7	50.2	57.1	67.5	91.8	112.5	136.8
57.5°	128.1	100.4	57.1	41.6	39.8	43.3	50.2	58.9	79.6	97.0	119.5
60°	128.1	102.2	50.2	32.9	31.2	34.6	41.6	51.9	71.0	84.8	103.9
62.5°	116.0	93.5	41.6	26.0	22.5	26.0	34.6	43.3	62.3	76.2	91.8
65°	100.4	79.6	34.6	19.0	15.6	19.0	27.7	36.4	53.7	65.8	83.1
67.5°	81.4	60.6	26.0	13.9	10.4	13.9	20.8	29.4	45.0	57.1	74.5
70°	60.6	43.3	20.8	12.1	10.4	12.1	19.0	27.7	39.8	51.9	69.3
72.5°	45.0	29.4	17.3	12.1	8.7	12.1	17.3	26.0	38.1	50.2	65.8
75°	38.1	24.2	15.6	10.4	8.7	10.4	15.6	24.2	34.6	46.7	62.3
77.5°	36.4	22.5	13.9	8.7	6.9	8.7	13.9	20.8	31.2	43.3	60.6
80°	31.2	19.0	12.1	6.9	5.2	6.9	12.1	17.3	24.2	32.9	46.7
82.5°	24.2	15.6	8.7	3.5	1.7	3.5	8.7	10.4	15.6	19.0	27.7
85°	15.6	8.7	3.5	0.0	0.0	0.0	3.5	6.9	6.9	8.7	13.9
87.5°	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	5.2
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-SA4D-735-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1	779.1
2.5°	730.7	732.4	735.9	741.0	753.2	763.6	773.9	787.8	794.7	794.7
5°	661.4	663.1	664.9	671.8	689.1	703.0	725.5	753.2	767.0	770.5
7.5°	607.7	611.2	614.7	619.8	637.2	656.2	685.6	737.6	763.6	768.8
10°	576.6	581.8	588.7	599.1	614.7	635.4	685.6	779.1	822.4	831.1
12.5°	552.3	561.0	567.9	580.0	599.1	632.0	732.4	896.9	973.1	993.8
15°	528.1	538.5	548.9	561.0	581.8	644.1	822.4	1108.1	1234.5	1250.1
17.5°	503.8	516.0	529.8	543.7	569.6	673.5	964.4	1400.7	1577.3	1612.0
20°	476.1	491.7	510.8	528.1	557.5	720.3	1161.8	1748.7	1970.4	2044.8
22.5°	446.7	465.8	488.3	510.8	543.7	777.4	1400.7	2122.7	2432.6	2481.1
25°	422.5	441.5	462.3	484.8	521.2	846.7	1689.9	2586.7	2869.0	2915.7
27.5°	400.0	419.0	438.0	458.8	498.6	936.7	2037.9	3080.2	3374.5	3423.0
30°	375.7	398.2	417.3	438.0	477.9	1047.5	2439.6	3627.3	3906.1	3951.1
32.5°	354.9	377.5	396.5	417.3	462.3	1168.7	2862.0	4112.1	4338.9	4338.9
35°	337.6	361.9	375.7	403.4	450.2	1246.6	3262.0	4574.4	4745.8	4738.9
37.5°	318.6	348.0	358.4	377.5	434.6	1255.3	3637.7	5062.7	5189.1	5144.1
40°	299.5	330.7	346.3	356.7	417.3	1184.3	4049.8	5511.1	5618.5	5559.6
42.5°	282.2	306.5	329.0	341.1	406.9	1059.6	4380.5	5990.7	6118.8	6066.9
45°	264.9	285.7	299.5	322.0	413.8	973.1	4664.5	6550.0	6775.1	6737.0
47.5°	247.6	264.9	273.6	308.2	460.6	933.2	4837.6	7415.7	7839.9	7808.7
50°	228.5	249.3	249.3	304.7	529.8	947.1	4988.2	8669.2	9325.4	9315.1
52.5°	209.5	232.0	228.5	330.7	583.5	1011.2	5159.6	9775.6	10916.6	11011.8
55°	190.5	211.2	214.7	382.6	614.7	1066.6	4496.5	10241.4	12275.8	12610.0
57.5°	169.7	181.8	223.4	422.5	604.3	1227.6	3080.2	10326.2	13143.2	13860.0
60°	147.2	157.6	252.8	413.8	571.4	1134.1	1939.2	9564.4	13020.3	13929.3
62.5°	128.1	145.4	266.6	365.3	581.8	983.4	1236.2	8151.5	11848.1	12885.2
65°	112.5	140.2	242.4	330.7	588.7	666.6	834.5	6631.3	10703.7	11690.6
67.5°	100.4	155.8	199.1	294.3	505.6	469.2	573.1	5152.7	8999.9	9884.7
70°	91.8	159.3	162.8	252.8	391.3	301.3	377.5	3468.0	6203.7	7214.8
72.5°	83.1	117.7	122.9	202.6	252.8	183.5	244.1	1984.2	4522.5	5211.6
75°	79.6	79.6	84.8	131.6	140.2	133.3	157.6	1184.3	3243.0	3746.8
77.5°	74.5	60.6	53.7	84.8	76.2	95.2	93.5	526.4	1405.9	1520.2
80°	58.9	43.3	36.4	53.7	51.9	64.1	55.4	43.3	64.1	62.3
82.5°	36.4	27.7	26.0	32.9	29.4	32.9	26.0	6.9	6.9	6.9
85°	17.3	15.6	13.9	13.9	15.6	13.9	10.4	3.5	1.7	1.7
87.5°	8.7	8.7	6.9	5.2	6.9	6.9	5.2	1.7	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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