

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: P638210

Luminaire Tested: GWS-SA4E-735-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638210  
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-SA4E-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**

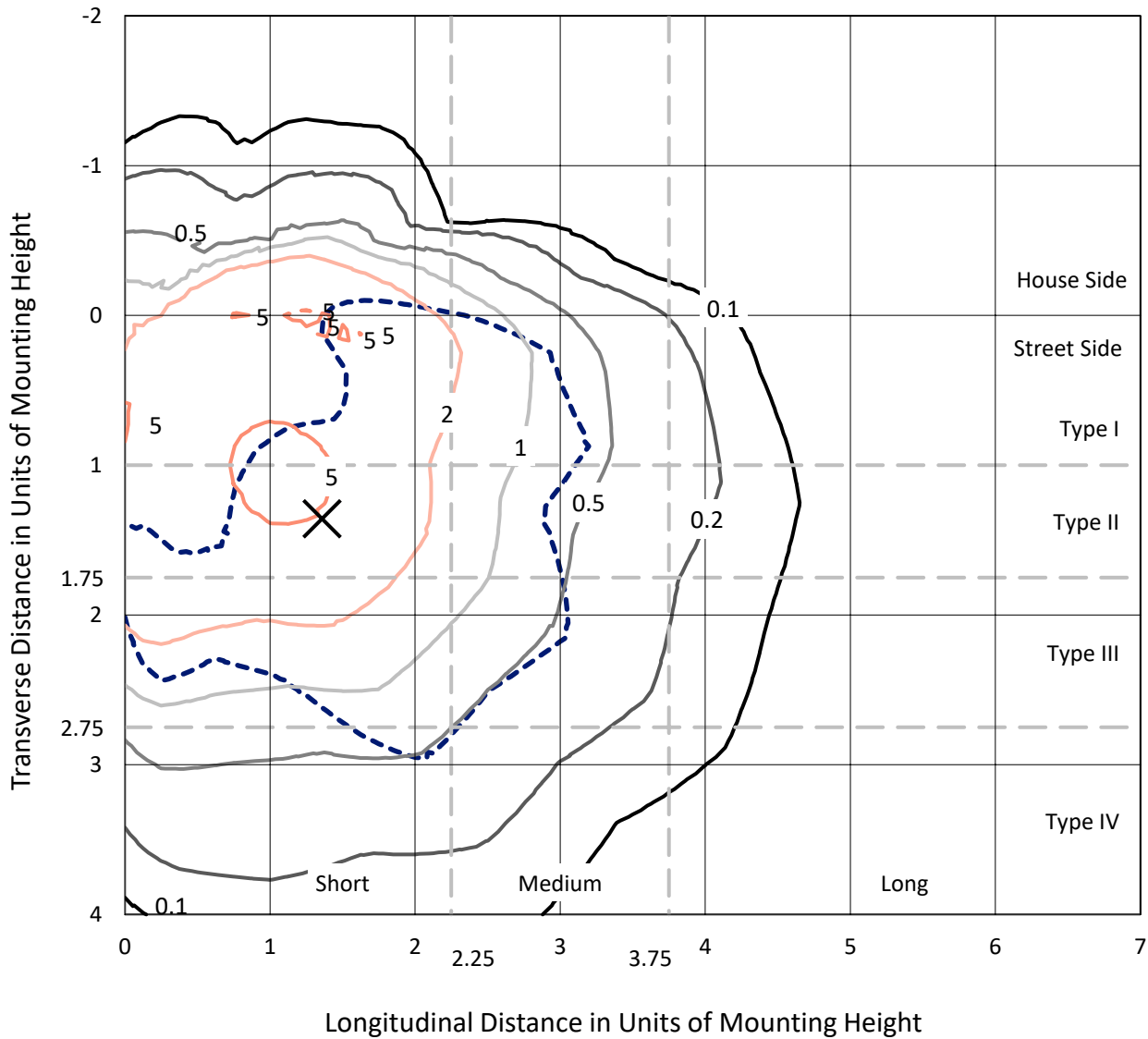
Lumens per Lamp: N/A  
Luminaire Lumens: 18731.6 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

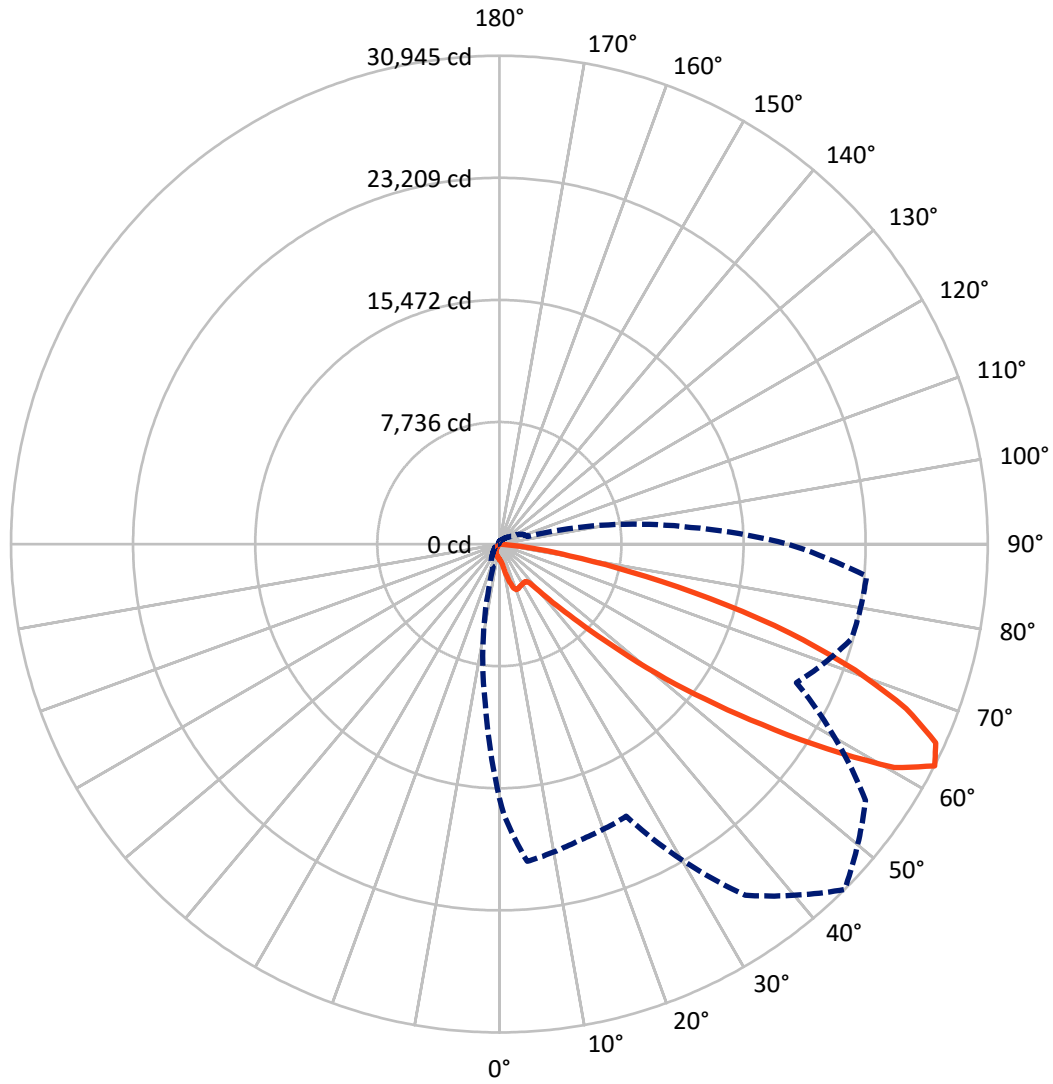
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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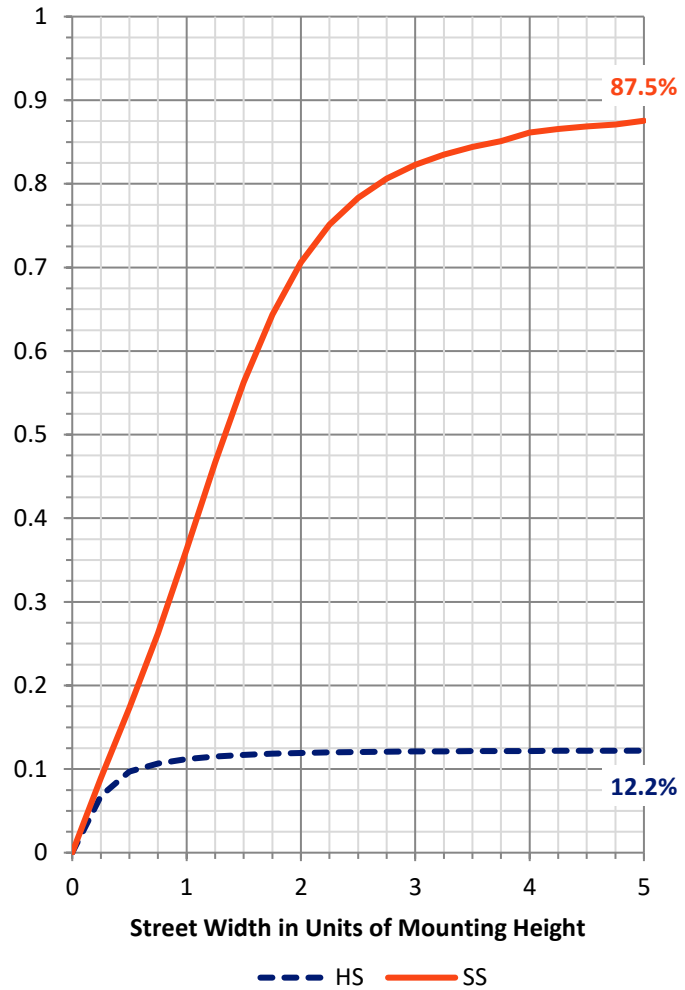
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2311.5	0.0	2311.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16420.1	0.0	16420.1
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	18731.6	0.0	18731.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	0.5
10°-20°	326.6	1.7
20°-30°	709.9	3.8
30°-40°	1165.2	6.2
40°-50°	2142.1	11.4
50°-60°	4600.2	24.6
60°-70°	6178.8	33.0
70°-80°	3217.4	17.2
80°-90°	305.1	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°	18731.6	100.0
0°-180°	18731.6	100.0

**Coefficient of Utilization**



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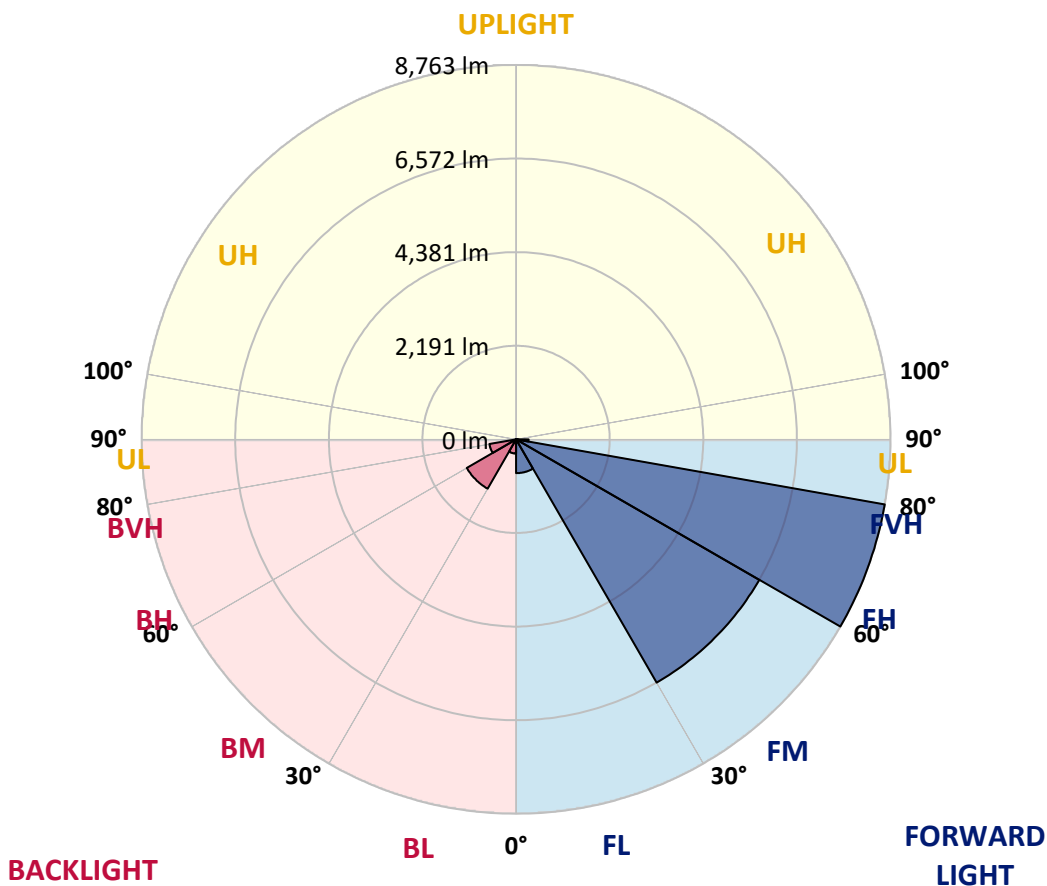
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.3	4.2			
FM (30°-60°)	6574.6	35.1			
FH (60°-80°)	8762.8	46.8			G4/12000
FVH (80°-90°)	291.5	1.6			G3/500
BL (0°-30°)	331.6	1.8	B1/500		
BM (30°-60°)	1332.9	7.1	B2/2500		
BH (60°-80°)	633.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	993.1	997.5	1001.8	1016.9	1027.7	1036.4	1038.6	1032.1	1016.9	1001.8	980.1
5°	962.8	967.2	982.3	1023.4	1064.5	1097.0	1107.8	1101.3	1064.5	1016.9	967.2
7.5°	960.7	969.3	1006.1	1092.7	1181.4	1248.4	1265.7	1250.6	1181.4	1086.2	984.5
10°	1038.6	1053.7	1107.8	1263.6	1425.9	1544.9	1592.5	1527.6	1417.2	1244.1	1077.5
12.5°	1241.9	1267.9	1371.8	1599.0	1849.9	2007.9	2072.8	1992.7	1819.6	1568.7	1304.7
15°	1562.2	1601.1	1756.9	2096.6	2393.0	2533.7	2555.3	2509.9	2308.6	2031.7	1676.8
17.5°	2014.4	2070.6	2313.0	2659.1	2873.4	2923.1	2916.6	2869.0	2721.9	2531.5	2196.1
20°	2555.3	2622.4	2860.4	3146.0	3167.6	3109.2	3076.7	3048.6	2998.8	2966.4	2704.6
22.5°	3100.5	3182.8	3431.6	3503.0	3308.3	3139.5	3059.4	3081.1	3154.6	3314.7	3208.7
25°	3643.6	3721.5	3955.2	3762.6	3373.2	3091.9	2990.2	3042.1	3217.4	3563.6	3699.9
27.5°	4277.6	4336.0	4474.5	3940.0	3384.0	3052.9	2953.4	3033.5	3247.7	3719.3	4238.6
30°	4937.5	4972.1	4905.0	3987.6	3347.2	2994.5	2916.6	3033.5	3299.6	3823.2	4643.2
32.5°	5422.2	5428.6	5210.1	3992.0	3327.7	2946.9	2882.0	3020.5	3349.4	3909.8	5034.9
35°	5922.0	5889.5	5502.2	4056.9	3379.7	2964.2	2908.0	3057.3	3427.3	4011.4	5378.9
37.5°	6428.3	6369.8	5828.9	4162.9	3513.8	3152.5	3117.8	3245.5	3552.7	4152.1	5757.5
40°	6947.5	6867.5	6168.6	4323.0	3812.4	3792.9	3911.9	3896.8	3896.8	4331.7	6147.0
42.5°	7581.5	7488.5	6670.6	4775.2	4509.1	4944.0	5268.5	5067.3	4695.2	4744.9	6653.3
45°	8418.8	8338.8	7540.4	5640.7	5601.7	6601.4	7038.4	6640.3	5714.3	5699.1	7499.3
47.5°	9758.1	9743.0	8927.3	6644.6	6938.9	8710.9	9554.8	8788.8	6876.1	6709.5	9100.4
50°	11640.5	11595.1	10656.1	7821.7	8529.2	11324.6	12830.6	11554.0	8280.4	7888.7	11244.6
52.5°	13760.9	13808.5	13077.2	9106.9	10219.0	14232.6	16329.2	14721.6	9805.7	9388.2	13942.7
55°	15758.0	16030.6	15838.1	10610.6	11869.9	17443.5	20171.9	18196.5	11694.6	11350.6	16967.5
57.5°	17320.2	18088.3	19438.4	12795.9	13810.7	21199.6	24462.4	21963.4	13899.4	14537.7	21085.0
60°	17406.7	18423.6	21558.8	17367.8	16307.6	24421.3	28746.5	25643.8	17365.6	19949.0	24311.0
62.5°	16102.0	17192.5	20178.4	19444.9	19027.3	27162.7	30944.8	28326.8	20775.6	23118.8	23354.6
65°	14609.1	15710.4	18637.8	17088.7	18711.4	27045.9	30386.6	28389.5	21085.0	20963.8	21643.2
67.5°	12352.4	13341.2	15991.7	15126.2	17246.6	25741.2	27807.5	26600.1	19425.4	19607.2	19910.1
70°	9016.0	9968.0	12428.1	12471.4	15061.3	23389.3	23893.4	23726.8	17889.2	18081.8	17216.3
72.5°	6512.6	7315.4	9437.9	10227.7	12023.5	19613.7	19265.3	19907.9	15349.1	16104.2	13828.0
75°	4682.2	5283.7	6923.7	8897.0	9531.0	14565.8	13791.2	15418.3	12315.6	13867.0	10396.4
77.5°	1899.7	2111.7	2724.1	5993.4	6263.8	9799.3	8442.6	11199.2	8780.2	9111.2	5039.2
80°	77.9	86.5	112.5	3094.0	4294.9	5513.0	4517.7	5986.9	5798.6	3669.6	1190.0
82.5°	8.7	8.7	19.5	891.4	1880.2	3042.1	2129.1	3448.9	2936.1	1555.7	540.9
85°	2.2	2.2	4.3	101.7	441.4	486.8	287.8	1058.0	1365.3	636.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.5	21.6	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°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	980.1	969.3	956.3	943.4	936.9	919.6	913.1	908.7	904.4	906.6	906.6
5°	947.7	923.9	895.8	867.6	852.5	835.2	826.5	822.2	824.4	833.0	833.0
7.5°	943.4	897.9	837.3	800.6	783.2	770.3	761.6	757.3	759.4	770.3	774.6
10°	1014.8	934.7	826.5	763.8	744.3	731.3	722.7	716.2	711.8	720.5	722.7
12.5°	1168.4	1058.0	878.4	759.4	724.8	707.5	701.0	688.0	681.6	685.9	688.0
15°	1486.4	1296.0	982.3	776.8	707.5	688.0	677.2	666.4	655.6	653.4	655.6
17.5°	1901.9	1629.2	1140.3	817.9	694.5	670.7	655.6	640.4	625.3	623.1	621.0
20°	2416.8	2038.2	1360.9	882.8	683.7	655.6	634.0	612.3	592.8	586.4	586.4
22.5°	2886.3	2531.5	1644.4	962.8	668.6	634.0	608.0	582.0	560.4	549.6	547.4
25°	3459.7	3055.1	1984.1	1055.9	646.9	605.8	577.7	551.7	530.1	517.1	512.8
27.5°	4037.4	3606.8	2369.2	1177.0	621.0	577.7	551.7	527.9	504.1	489.0	484.7
30°	4597.8	4201.8	2802.0	1328.5	601.5	549.6	527.9	504.1	482.5	458.7	452.2
32.5°	5199.3	4809.8	3286.6	1497.3	586.4	530.1	506.3	484.7	456.5	434.9	424.1
35°	5779.2	5437.3	3821.0	1661.7	571.2	512.8	486.8	465.2	434.9	411.1	396.0
37.5°	6363.4	6075.6	4379.3	1761.2	549.6	489.0	465.2	447.9	413.3	385.1	367.8
40°	6982.2	6735.5	4982.9	1720.1	530.1	463.0	450.0	430.6	391.6	359.2	337.5
42.5°	7661.6	7365.1	5597.4	1562.2	512.8	441.4	428.4	408.9	372.2	333.2	305.1
45°	8516.2	8055.3	6101.5	1324.2	521.4	419.8	393.8	389.5	354.8	305.1	270.5
47.5°	9985.3	9115.5	6493.2	1170.5	579.9	396.0	365.7	376.5	339.7	276.9	238.0
50°	12233.4	10872.4	6858.8	1159.7	668.6	385.1	339.7	367.8	324.6	248.8	209.9
52.5°	14375.4	12657.5	7092.5	1254.9	746.5	413.3	313.7	357.0	313.7	229.3	190.4
55°	16424.4	13687.4	6674.9	1324.2	820.0	497.6	294.3	339.7	300.8	218.5	183.9
57.5°	18633.5	14146.1	5255.6	1464.8	872.0	569.0	298.6	313.7	283.4	212.0	181.7
60°	19293.4	13559.7	3171.9	1648.7	843.8	590.7	331.0	279.1	259.6	199.1	175.3
62.5°	18267.9	12168.5	1871.6	1501.6	820.0	558.2	378.6	257.5	235.8	181.7	162.3
65°	16733.8	10279.6	1220.3	1267.9	869.8	497.6	402.4	246.7	214.2	164.4	142.8
67.5°	14981.2	8280.4	854.6	748.6	802.7	447.9	339.7	244.5	192.6	138.5	116.8
70°	12618.5	6201.1	601.5	495.5	668.6	398.1	264.0	238.0	168.8	112.5	90.9
72.5°	9749.5	3881.6	447.9	320.2	476.0	324.6	209.9	201.2	136.3	93.0	69.2
75°	7189.9	2213.4	315.9	231.5	313.7	246.7	155.8	142.8	116.8	88.7	62.7
77.5°	3754.0	1107.8	196.9	177.4	179.6	153.6	112.5	103.9	108.2	88.7	58.4
80°	720.5	220.7	119.0	129.8	97.4	97.4	82.2	86.5	95.2	71.4	49.8
82.5°	300.8	47.6	64.9	73.6	60.6	67.1	67.1	69.2	67.1	51.9	36.8
85°	0.0	0.0	28.1	30.3	41.1	41.1	34.6	34.6	34.6	30.3	21.6
87.5°	0.0	0.0	0.0	0.0	2.2	6.5	13.0	15.1	17.3	13.0	8.7
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°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	904.4	900.1	906.6	910.9	915.2	915.2	910.9	906.6	900.1	906.6	900.1
5°	835.2	841.7	852.5	856.8	861.1	852.5	848.2	835.2	824.4	826.5	822.2
7.5°	781.1	787.6	800.6	809.2	809.2	804.9	791.9	778.9	761.6	761.6	759.4
10°	731.3	740.0	755.1	765.9	770.3	765.9	753.0	735.6	720.5	720.5	714.0
12.5°	690.2	701.0	718.3	733.5	737.8	733.5	720.5	703.2	685.9	685.9	681.6
15°	655.6	668.6	688.0	705.4	711.8	705.4	690.2	668.6	651.3	653.4	646.9
17.5°	623.1	634.0	659.9	679.4	685.9	679.4	659.9	631.8	614.5	618.8	614.5
20°	586.4	599.3	625.3	646.9	653.4	646.9	625.3	595.0	577.7	577.7	579.9
22.5°	547.4	560.4	586.4	601.5	610.2	603.7	582.0	553.9	536.6	536.6	538.8
25°	512.8	519.3	538.8	553.9	556.1	549.6	532.3	510.6	497.6	504.1	506.3
27.5°	480.3	480.3	489.0	497.6	495.5	489.0	482.5	465.2	463.0	469.5	476.0
30°	445.7	434.9	430.6	424.1	421.9	419.8	426.2	426.2	430.6	439.2	445.7
32.5°	415.4	393.8	374.3	354.8	344.0	352.7	370.0	385.1	400.3	413.3	419.8
35°	380.8	346.2	313.7	287.8	270.5	283.4	311.6	339.7	365.7	383.0	393.8
37.5°	346.2	296.4	257.5	225.0	212.0	222.9	253.1	292.1	331.0	352.7	367.8
40°	309.4	246.7	201.2	175.3	162.3	173.1	203.4	242.3	294.3	322.4	341.9
42.5°	272.6	203.4	162.3	136.3	129.8	136.3	160.1	199.1	255.3	289.9	315.9
45°	235.8	168.8	129.8	110.3	103.9	110.3	129.8	162.3	218.5	257.5	287.8
47.5°	203.4	142.8	108.2	90.9	86.5	93.0	108.2	136.3	183.9	222.9	257.5
50°	177.4	125.5	93.0	77.9	73.6	80.1	93.0	114.7	155.8	190.4	227.2
52.5°	160.1	116.8	82.2	67.1	64.9	69.2	80.1	97.4	132.0	162.3	196.9
55°	155.8	116.8	75.7	60.6	58.4	62.7	71.4	84.4	114.7	140.6	170.9
57.5°	160.1	125.5	71.4	51.9	49.8	54.1	62.7	73.6	99.5	121.2	149.3
60°	160.1	127.7	62.7	41.1	38.9	43.3	51.9	64.9	88.7	106.0	129.8
62.5°	145.0	116.8	51.9	32.5	28.1	32.5	43.3	54.1	77.9	95.2	114.7
65°	125.5	99.5	43.3	23.8	19.5	23.8	34.6	45.4	67.1	82.2	103.9
67.5°	101.7	75.7	32.5	17.3	13.0	17.3	26.0	36.8	56.3	71.4	93.0
70°	75.7	54.1	26.0	15.1	13.0	15.1	23.8	34.6	49.8	64.9	86.5
72.5°	56.3	36.8	21.6	15.1	10.8	15.1	21.6	32.5	47.6	62.7	82.2
75°	47.6	30.3	19.5	13.0	10.8	13.0	19.5	30.3	43.3	58.4	77.9
77.5°	45.4	28.1	17.3	10.8	8.7	10.8	17.3	26.0	38.9	54.1	75.7
80°	38.9	23.8	15.1	8.7	6.5	8.7	15.1	21.6	30.3	41.1	58.4
82.5°	30.3	19.5	10.8	4.3	2.2	4.3	10.8	13.0	19.5	23.8	34.6
85°	19.5	10.8	4.3	0.0	0.0	0.0	4.3	8.7	8.7	10.8	17.3
87.5°	8.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5
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-735-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7	973.7
2.5°	913.1	915.2	919.6	926.1	941.2	954.2	967.2	984.5	993.1	993.1
5°	826.5	828.7	830.8	839.5	861.1	878.4	906.6	941.2	958.5	962.8
7.5°	759.4	763.8	768.1	774.6	796.2	820.0	856.8	921.7	954.2	960.7
10°	720.5	727.0	735.6	748.6	768.1	794.1	856.8	973.7	1027.7	1038.6
12.5°	690.2	701.0	709.7	724.8	748.6	789.7	915.2	1120.8	1216.0	1241.9
15°	659.9	672.9	685.9	701.0	727.0	804.9	1027.7	1384.7	1542.7	1562.2
17.5°	629.6	644.8	662.1	679.4	711.8	841.7	1205.2	1750.4	1971.1	2014.4
20°	595.0	614.5	638.3	659.9	696.7	900.1	1451.8	2185.3	2462.3	2555.3
22.5°	558.2	582.0	610.2	638.3	679.4	971.5	1750.4	2652.7	3040.0	3100.5
25°	527.9	551.7	577.7	605.8	651.3	1058.0	2111.7	3232.5	3585.2	3643.6
27.5°	499.8	523.6	547.4	573.4	623.1	1170.5	2546.6	3849.2	4217.0	4277.6
30°	469.5	497.6	521.4	547.4	597.2	1309.0	3048.6	4532.9	4881.2	4937.5
32.5°	443.6	471.7	495.5	521.4	577.7	1460.5	3576.5	5138.7	5422.2	5422.2
35°	421.9	452.2	469.5	504.1	562.6	1557.8	4076.4	5716.4	5930.6	5922.0
37.5°	398.1	434.9	447.9	471.7	543.1	1568.7	4545.9	6326.6	6484.5	6428.3
40°	374.3	413.3	432.7	445.7	521.4	1479.9	5060.8	6887.0	7021.1	6947.5
42.5°	352.7	383.0	411.1	426.2	508.5	1324.2	5474.1	7486.3	7646.4	7581.5
45°	331.0	357.0	374.3	402.4	517.1	1216.0	5828.9	8185.2	8466.4	8418.8
47.5°	309.4	331.0	341.9	385.1	575.5	1166.2	6045.3	9267.0	9797.1	9758.1
50°	285.6	311.6	311.6	380.8	662.1	1183.5	6233.5	10833.5	11653.5	11640.5
52.5°	261.8	289.9	285.6	413.3	729.2	1263.6	6447.7	12216.1	13641.9	13760.9
55°	238.0	264.0	268.3	478.2	768.1	1332.8	5619.0	12798.1	15340.4	15758.0
57.5°	212.0	227.2	279.1	527.9	755.1	1534.0	3849.2	12904.1	16424.4	17320.2
60°	183.9	196.9	315.9	517.1	714.0	1417.2	2423.3	11952.1	16270.8	17406.7
62.5°	160.1	181.7	333.2	456.5	727.0	1229.0	1544.9	10186.6	14806.0	16102.0
65°	140.6	175.3	302.9	413.3	735.6	833.0	1042.9	8286.9	13375.8	14609.1
67.5°	125.5	194.7	248.8	367.8	631.8	586.4	716.2	6439.1	11246.8	12352.4
70°	114.7	199.1	203.4	315.9	489.0	376.5	471.7	4333.8	7752.4	9016.0
72.5°	103.9	147.1	153.6	253.1	315.9	229.3	305.1	2479.6	5651.5	6512.6
75°	99.5	99.5	106.0	164.4	175.3	166.6	196.9	1479.9	4052.6	4682.2
77.5°	93.0	75.7	67.1	106.0	95.2	119.0	116.8	657.8	1756.9	1899.7
80°	73.6	54.1	45.4	67.1	64.9	80.1	69.2	54.1	80.1	77.9
82.5°	45.4	34.6	32.5	41.1	36.8	41.1	32.5	8.7	8.7	8.7
85°	21.6	19.5	17.3	17.3	19.5	17.3	13.0	4.3	2.2	2.2
87.5°	10.8	10.8	8.7	6.5	8.7	8.7	6.5	2.2	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)