

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: P639306

Luminaire Tested: GWS-SA5B-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639306  
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-SA5B-750-U-SLL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

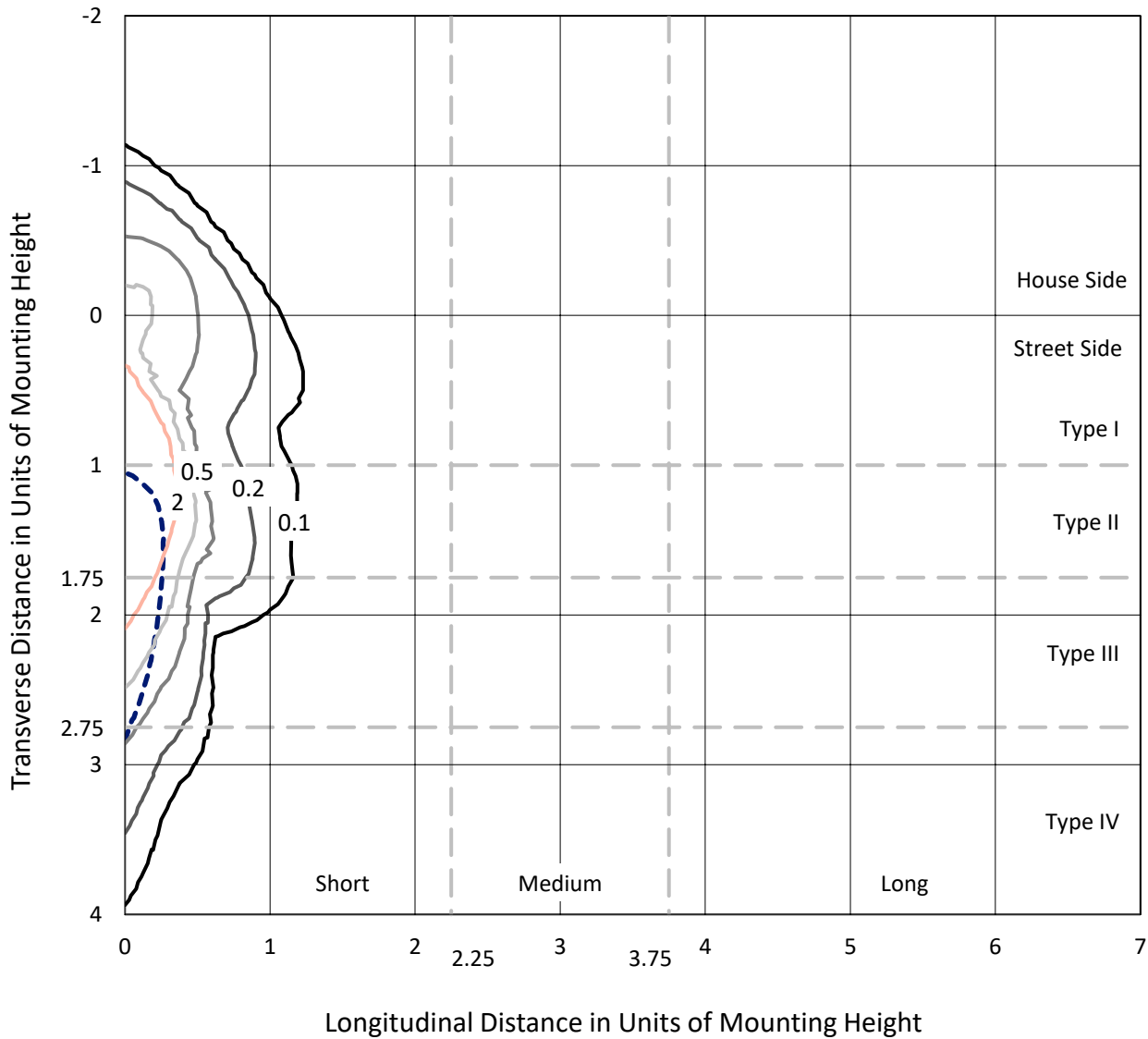
Lumens per Lamp: N/A  
Luminaire Lumens: 10997 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

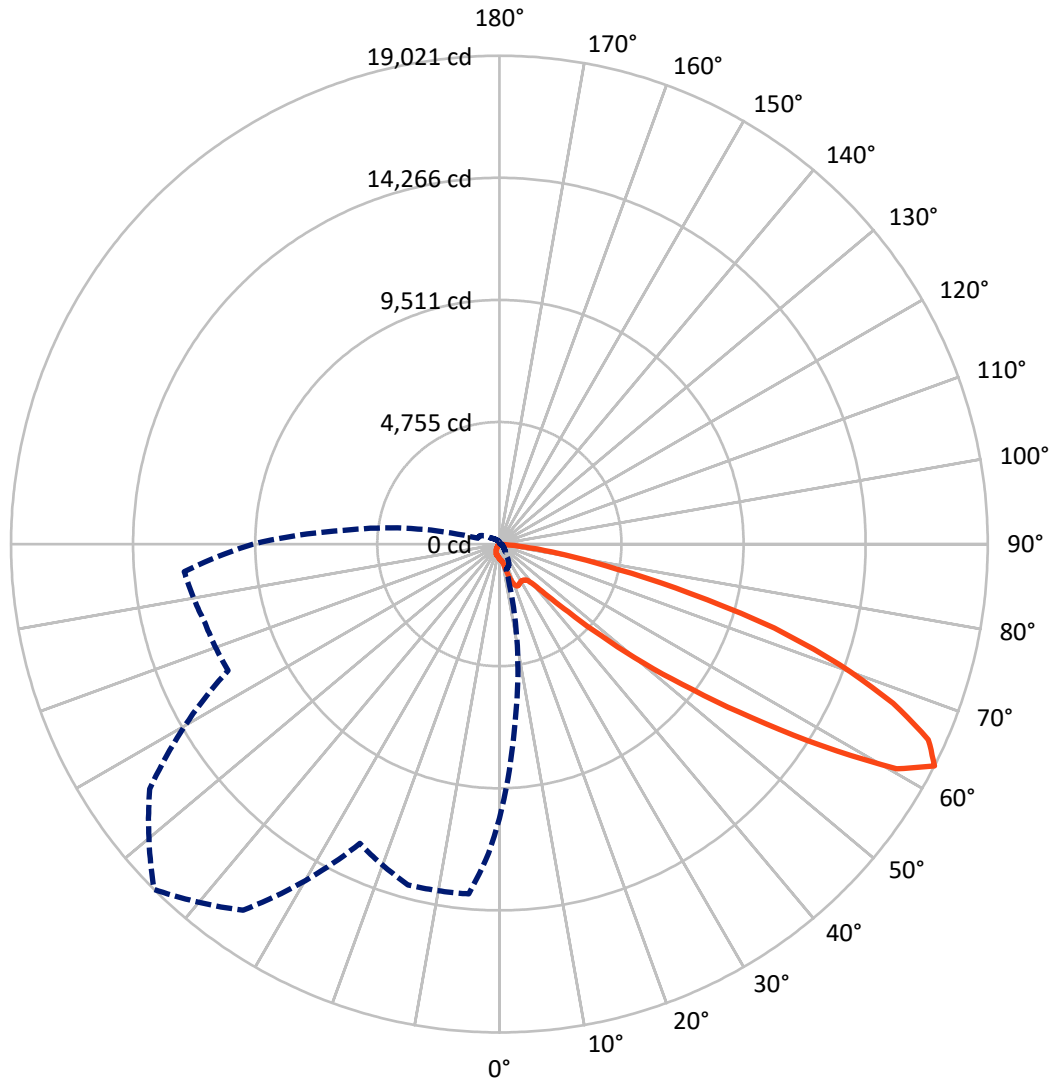
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1277.7	0.0	1277.7
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	9719.3	0.0	9719.3
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	10997.0	0.0	10997.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	0.4
10°-20°	168.8	1.5
20°-30°	381.3	3.5
30°-40°	657.0	6.0
40°-50°	1239.3	11.3
50°-60°	2766.9	25.2
60°-70°	3700.7	33.7
70°-80°	1855.8	16.9
80°-90°	177.9	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°	10997.0	100.0
0°-180°	10997.0	100.0

**Coefficient of Utilization**



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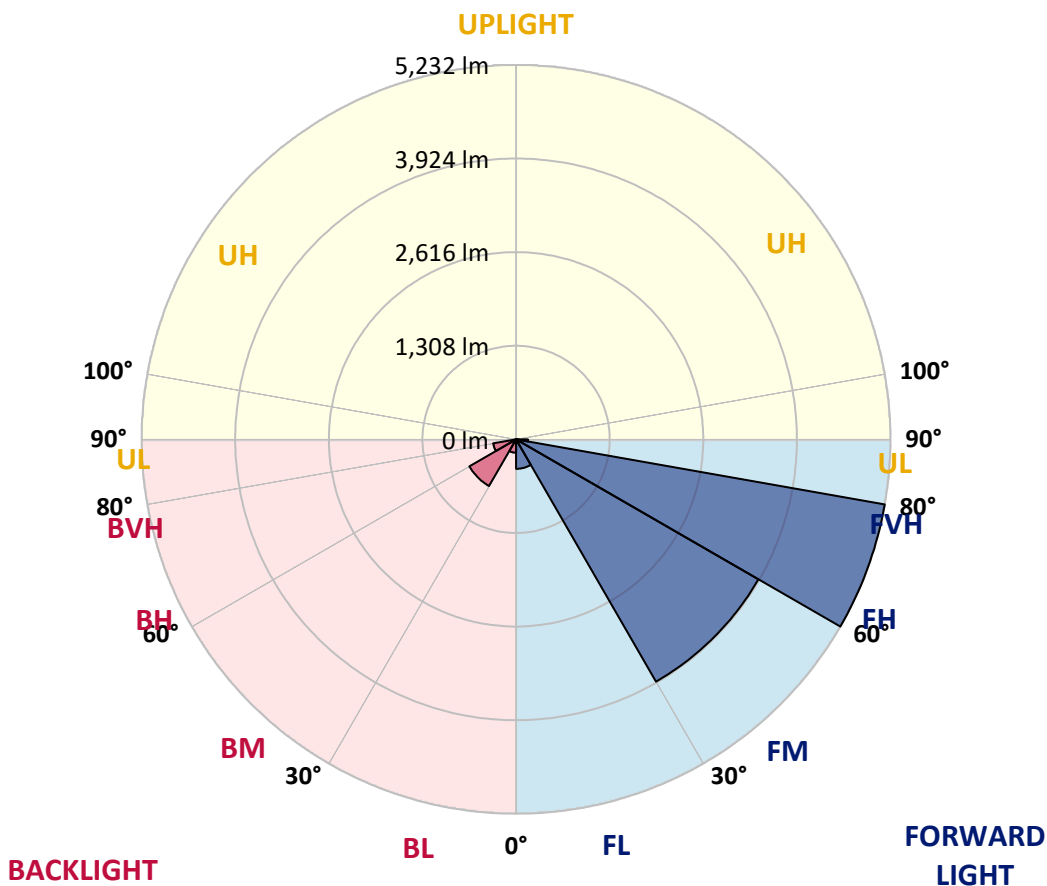
CATALOG NUMBER: GWS-SA5B-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.9	3.7			
FM (30°-60°)	3909.8	35.6			
FH (60°-80°)	5231.6	47.6			G3/7500
FVH (80°-90°)	166.0	1.5			G2/225
BL (0°-30°)	187.5	1.7	B1/500		
BM (30°-60°)	753.4	6.9	B1/1000		
BH (60°-80°)	324.9	3.0	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3
2.5°	563.8	562.5	559.9	552.1	545.6	541.7	533.9	533.9	532.6	530.0	524.7
5°	545.6	540.4	535.2	520.8	505.2	496.1	485.7	484.4	484.4	481.8	480.5
7.5°	516.9	511.7	505.2	481.8	467.5	458.3	449.2	447.9	444.0	444.0	444.0
10°	501.3	493.5	483.1	457.0	442.7	434.9	428.4	424.5	421.9	418.0	416.7
12.5°	535.2	520.8	498.7	451.8	432.3	421.9	414.1	411.5	403.7	398.4	394.5
15°	640.6	605.5	561.2	463.5	428.4	412.8	402.3	397.1	390.6	381.5	375.0
17.5°	813.8	763.0	688.8	501.3	424.5	405.0	391.9	382.8	373.7	363.3	355.5
20°	1053.4	977.9	889.3	570.3	424.5	395.8	380.2	368.5	355.5	343.8	334.6
22.5°	1358.1	1282.6	1131.5	687.5	429.7	384.1	365.9	350.3	334.6	324.2	313.8
25°	1699.2	1592.5	1451.8	829.4	444.0	368.5	349.0	333.3	319.0	306.0	294.3
27.5°	2079.5	1963.6	1776.1	1031.3	475.3	352.9	330.7	316.4	303.4	290.4	274.7
30°	2429.7	2360.7	2169.3	1273.5	526.0	342.5	316.4	303.4	290.4	273.4	259.1
32.5°	2850.3	2727.9	2570.3	1549.5	593.8	332.0	304.7	286.5	276.0	260.4	244.8
35°	3273.5	3169.3	2962.3	1889.3	669.3	321.6	290.4	273.4	264.3	246.1	229.2
37.5°	3709.7	3686.2	3481.8	2265.7	743.5	309.9	273.4	263.0	253.9	233.1	213.5
40°	4139.4	4096.4	3907.6	2695.3	789.1	296.9	259.1	252.6	242.2	218.8	196.6
42.5°	4550.8	4518.3	4334.7	3106.8	782.6	285.2	244.8	237.0	229.2	205.7	178.4
45°	5056.1	5002.7	4770.9	3411.5	716.2	298.2	230.5	217.5	216.1	194.0	160.2
47.5°	6001.4	5825.6	5432.4	3645.9	649.7	332.0	214.8	199.2	208.3	182.3	141.9
50°	7325.6	7118.6	6549.6	3828.2	648.4	376.3	212.2	182.3	201.8	173.2	126.3
52.5°	8656.4	8291.8	7600.4	3925.8	696.6	408.9	235.7	165.4	194.0	164.1	114.6
55°	9931.1	9174.6	8040.5	3602.9	734.4	444.0	278.6	156.3	179.7	153.6	108.1
57.5°	11146.0	9884.2	8231.9	2850.3	860.7	458.3	304.7	160.2	158.9	140.6	102.9
60°	11312.7	9850.4	7845.2	1657.6	949.2	433.6	294.3	178.4	139.3	125.0	93.8
62.5°	10682.4	9195.4	6963.6	1033.9	881.5	424.5	261.7	203.1	126.3	110.7	82.0
65°	9725.4	8168.1	5806.1	666.7	668.0	471.4	229.2	199.2	118.5	97.7	70.3
67.5°	8229.3	6836.0	4574.3	446.6	377.6	402.3	200.5	136.7	115.9	83.3	54.7
70°	6006.6	4866.0	2977.9	298.2	225.3	321.6	168.0	97.7	109.4	69.0	39.1
72.5°	4390.7	3269.6	1662.8	195.3	127.6	187.5	123.7	70.3	84.6	50.8	27.3
75°	3160.2	2250.0	949.2	125.0	84.6	102.9	80.7	48.2	54.7	40.4	24.7
77.5°	1520.9	1096.4	431.0	69.0	57.3	52.1	43.0	29.9	33.9	36.5	22.1
80°	57.3	43.0	32.6	33.9	36.5	23.4	19.5	15.6	19.5	24.7	11.7
82.5°	0.0	0.0	0.0	3.9	5.2	6.5	7.8	6.5	7.8	9.1	1.3
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°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3
2.5°	528.7	526.0	528.7	531.3	533.9	536.5	532.6	535.2	537.8	531.3	533.9
5°	487.0	485.7	493.5	497.4	502.6	505.2	502.6	502.6	501.3	493.5	493.5
7.5°	450.5	451.8	458.3	467.5	474.0	477.9	475.3	474.0	470.1	458.3	458.3
10°	423.2	423.2	433.6	441.4	450.5	454.4	451.8	447.9	444.0	432.3	431.0
12.5°	401.0	401.0	408.9	421.9	432.3	437.5	436.2	431.0	424.5	412.8	411.5
15°	380.2	378.9	390.6	402.3	416.7	423.2	420.6	416.7	405.0	394.5	391.9
17.5°	359.4	358.1	368.5	384.1	399.7	408.9	407.6	398.4	388.0	375.0	372.4
20°	338.5	335.9	349.0	364.6	380.2	389.3	386.7	378.9	365.9	352.9	350.3
22.5°	317.7	316.4	325.5	338.5	352.9	360.7	359.4	352.9	339.8	328.1	328.1
25°	294.3	294.3	300.8	309.9	320.3	324.2	325.5	322.9	315.1	308.6	308.6
27.5°	274.7	270.8	273.4	276.0	281.3	287.8	287.8	290.4	291.7	289.1	290.4
30°	259.1	252.6	248.7	243.5	240.9	243.5	246.1	255.2	264.3	269.5	272.1
32.5°	240.9	233.1	222.7	208.3	199.2	196.6	204.4	221.4	238.3	250.0	256.5
35°	222.7	212.2	192.7	171.9	160.2	156.3	165.4	184.9	209.6	230.5	239.6
37.5°	204.4	190.1	162.8	138.0	125.0	122.4	131.5	152.3	181.0	209.6	221.4
40°	183.6	166.7	134.1	108.1	97.7	95.1	102.9	123.7	153.6	186.2	204.4
42.5°	162.8	141.9	108.1	85.9	75.5	75.5	85.9	101.6	128.9	164.1	186.2
45°	141.9	119.8	88.5	69.0	62.5	63.8	70.3	85.9	108.1	144.5	165.4
47.5°	122.4	102.9	72.9	57.3	52.1	53.4	61.2	74.2	92.4	125.0	147.1
50°	105.5	87.2	63.8	48.2	44.3	46.9	54.7	66.4	82.0	110.7	128.9
52.5°	95.1	78.1	58.6	41.7	39.1	41.7	49.5	59.9	74.2	97.7	115.9
55°	89.8	76.8	58.6	37.8	33.9	36.5	44.3	54.7	66.4	88.5	104.2
57.5°	88.5	79.4	62.5	33.9	28.6	31.3	39.1	49.5	61.2	80.7	93.8
60°	83.3	75.5	61.2	27.3	22.1	26.0	32.6	43.0	56.0	75.5	87.2
62.5°	72.9	66.4	53.4	22.1	16.9	19.5	27.3	37.8	50.8	69.0	82.0
65°	59.9	53.4	41.7	14.3	10.4	13.0	20.8	32.6	44.3	62.5	74.2
67.5°	44.3	37.8	28.6	9.1	5.2	9.1	16.9	27.3	40.4	56.0	67.7
70°	27.3	22.1	15.6	5.2	3.9	7.8	15.6	26.0	36.5	52.1	63.8
72.5°	15.6	10.4	6.5	2.6	3.9	7.8	15.6	26.0	35.2	49.5	59.9
75°	11.7	6.5	2.6	1.3	2.6	6.5	14.3	23.4	33.9	46.9	57.3
77.5°	7.8	3.9	1.3	0.0	1.3	5.2	13.0	22.1	31.3	44.3	54.7
80°	1.3	0.0	0.0	0.0	0.0	3.9	11.7	19.5	28.6	39.1	48.2
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	9.1	16.9	24.7	32.6	39.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	13.0	19.5	24.7	27.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	13.0	15.6	18.2
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3
2.5°	532.6	540.4	540.4	545.6	552.1	563.8	570.3	579.4	585.9	592.5	595.1
5°	492.2	493.5	494.8	497.4	505.2	518.2	530.0	544.3	561.2	574.2	582.0
7.5°	458.3	458.3	458.3	462.2	470.1	479.2	490.9	510.4	530.0	545.6	558.6
10°	429.7	433.6	434.9	441.4	450.5	462.2	475.3	492.2	514.3	535.2	558.6
12.5°	411.5	415.4	421.9	428.4	437.5	450.5	464.9	487.0	532.6	575.5	625.0
15°	394.5	399.7	407.6	416.7	427.1	441.4	457.0	502.6	609.4	690.1	768.2
17.5°	376.3	384.1	394.5	403.7	416.7	432.3	451.8	540.4	750.0	884.1	1016.9
20°	352.9	363.3	375.0	389.3	405.0	423.2	451.8	618.5	953.1	1145.8	1321.6
22.5°	330.7	341.2	355.5	373.7	391.9	410.2	458.3	737.0	1214.9	1458.4	1681.0
25°	312.5	325.5	339.8	355.5	376.3	397.1	474.0	903.7	1530.0	1843.8	2001.3
27.5°	295.6	311.2	325.5	338.5	356.8	380.2	509.1	1126.3	1902.4	2221.4	2345.1
30°	278.6	296.9	311.2	324.2	342.5	367.2	562.5	1410.2	2316.4	2626.3	2639.4
32.5°	264.3	281.3	298.2	311.2	328.1	356.8	636.7	1742.2	2740.9	3040.4	2918.0
35°	248.7	268.2	283.9	298.2	316.4	347.7	722.7	2100.3	3169.3	3420.6	3195.4
37.5°	233.1	255.2	274.7	285.2	303.4	338.5	785.2	2474.0	3606.8	3791.7	3438.8
40°	218.8	243.5	265.6	276.0	285.2	326.8	794.3	2856.8	4050.8	4157.6	3668.0
42.5°	203.1	230.5	250.0	264.3	272.1	319.0	739.6	3179.7	4423.2	4522.2	3967.5
45°	186.2	218.8	234.4	244.8	260.4	324.2	669.3	3429.7	4849.0	5019.6	4461.0
47.5°	169.3	205.7	218.8	226.6	247.4	355.5	643.2	3596.4	5550.9	5905.0	5293.0
50°	153.6	194.0	208.3	207.0	244.8	395.8	671.9	3722.7	6605.6	7022.2	6433.7
52.5°	136.7	181.0	197.9	192.7	264.3	427.1	729.2	3823.0	7416.8	8332.1	7966.3
55°	122.4	166.7	182.3	181.0	300.8	450.5	773.4	3294.3	7752.7	9549.6	9692.8
57.5°	112.0	151.0	164.1	186.2	324.2	450.5	894.5	2338.6	7759.2	10445.5	11984.5
60°	102.9	136.7	145.8	204.4	315.1	427.1	885.4	1432.3	7151.1	10384.3	13203.3
62.5°	95.1	123.7	135.4	209.6	278.6	423.2	799.5	888.0	6099.0	9593.9	12319.2
65°	88.5	113.3	130.2	192.7	252.6	453.1	539.1	638.0	4946.7	8692.8	11304.8
67.5°	82.0	104.2	138.0	157.6	229.2	405.0	389.3	453.1	3882.9	7704.5	10373.8
70°	76.8	99.0	145.8	128.9	200.5	316.4	276.0	343.8	2972.7	6428.5	9062.6
72.5°	72.9	92.4	122.4	101.6	162.8	244.8	192.7	250.0	1942.7	5018.3	7388.1
75°	69.0	84.6	89.8	82.0	121.1	160.2	145.8	168.0	1157.6	3668.0	5605.5
77.5°	67.7	79.4	72.9	66.4	82.0	95.1	110.7	113.3	565.1	1834.7	2937.5
80°	59.9	71.6	62.5	54.7	56.0	62.5	82.0	75.5	128.9	466.2	783.9
82.5°	46.9	56.0	52.1	45.6	45.6	45.6	54.7	50.8	41.7	209.6	354.2
85°	32.6	39.1	39.1	36.5	35.2	35.2	33.9	32.6	11.7	13.0	19.5
87.5°	22.1	27.3	28.6	27.3	23.4	20.8	18.2	15.6	5.2	0.0	2.6
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-SA5B-750-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3	570.3
2.5°	604.2	608.1	608.1	602.9	599.0	588.5	578.1	567.7	565.1	563.8
5°	604.2	619.8	627.6	626.3	617.2	600.3	578.1	554.7	548.2	545.6
7.5°	595.1	625.0	648.4	652.4	635.4	605.5	565.1	530.0	520.8	516.9
10°	615.9	674.5	721.4	727.9	708.3	649.7	584.6	524.7	510.4	501.3
12.5°	727.9	824.2	881.5	908.9	871.1	796.9	688.8	582.0	549.5	535.2
15°	954.4	1091.2	1200.5	1200.5	1165.4	1033.9	897.1	724.0	679.7	640.6
17.5°	1244.8	1416.7	1513.0	1502.6	1449.2	1356.8	1192.7	944.0	854.2	813.8
20°	1575.5	1678.4	1700.5	1694.0	1670.6	1617.2	1503.9	1237.0	1115.9	1053.4
22.5°	1862.0	1834.7	1802.1	1776.1	1769.6	1785.2	1769.6	1563.8	1468.8	1358.1
25°	2056.0	1901.1	1803.4	1756.5	1778.7	1868.5	1966.2	1889.3	1813.8	1699.2
27.5°	2161.5	1893.3	1752.6	1704.5	1742.2	1869.8	2082.1	2212.3	2134.1	2079.5
30°	2218.8	1886.7	1720.1	1673.2	1730.5	1890.7	2162.8	2514.4	2517.0	2429.7
32.5°	2300.8	1928.4	1726.6	1683.6	1760.4	1953.2	2264.4	2821.7	2897.2	2850.3
35°	2393.3	1992.2	1756.5	1717.5	1812.5	2036.5	2377.6	3131.6	3289.1	3273.5
37.5°	2480.5	2063.8	1826.8	1789.1	1892.0	2108.1	2487.0	3436.2	3655.0	3709.7
40°	2571.6	2164.1	2043.0	2079.5	2136.7	2221.4	2584.7	3700.6	4057.3	4139.4
42.5°	2786.5	2511.8	2696.7	2765.7	2773.5	2599.0	2798.2	4039.1	4453.2	4550.8
45°	3265.7	3130.3	3660.2	3757.9	3707.1	3178.4	3312.5	4527.4	5006.6	5056.1
47.5°	3871.1	3933.6	4979.2	5316.5	5011.8	3862.0	3936.3	5554.8	6019.6	6001.4
50°	4576.9	4872.5	6476.7	7272.2	6543.1	4750.1	4655.0	6817.8	7381.6	7325.6
52.5°	5411.5	5963.6	8276.2	9406.4	8716.3	5748.8	5709.7	8491.0	8834.8	8656.4
55°	6462.3	7017.0	10346.5	11925.9	10944.2	6967.5	7101.7	10431.1	10497.5	9931.1
57.5°	8030.1	8390.7	12786.6	14815.3	13269.7	8623.8	9596.5	13013.2	12218.9	11146.0
60°	10876.4	10157.7	15144.7	17771.1	15743.7	10953.3	12886.9	14543.2	12791.8	11312.7
62.5°	11867.3	11657.7	16621.3	19021.1	17407.8	12866.1	13742.4	13676.0	12049.6	10682.4
65°	10366.0	11284.0	16357.0	18360.9	17194.2	12551.0	12332.2	12718.9	11213.7	9725.4
67.5°	9575.7	10406.4	15355.7	16539.3	16010.6	11481.9	10992.3	10886.9	9414.2	8229.3
70°	8778.8	9601.7	13903.8	14051.0	13804.9	9739.7	9096.5	8389.4	7036.6	6006.6
72.5°	7820.4	8273.5	11889.5	11191.6	10912.9	7649.8	7514.4	6317.8	5274.8	4390.7
75°	6820.4	6688.9	9269.7	7681.1	7889.4	5951.9	6346.4	4639.4	3864.6	3160.2
77.5°	4961.0	4863.3	6208.4	4665.4	5166.7	3898.5	3502.7	1851.6	1763.0	1520.9
80°	2768.3	3337.3	3352.9	2614.6	3261.8	2541.7	876.3	61.2	39.1	57.3
82.5°	1286.5	1434.9	1817.7	1212.3	1860.7	1259.1	181.0	0.0	0.0	0.0
85°	416.7	609.4	510.4	178.4	450.5	425.8	29.9	0.0	0.0	0.0
87.5°	24.7	50.8	13.0	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

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