

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: P639310

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639310  
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-SA5B-750-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

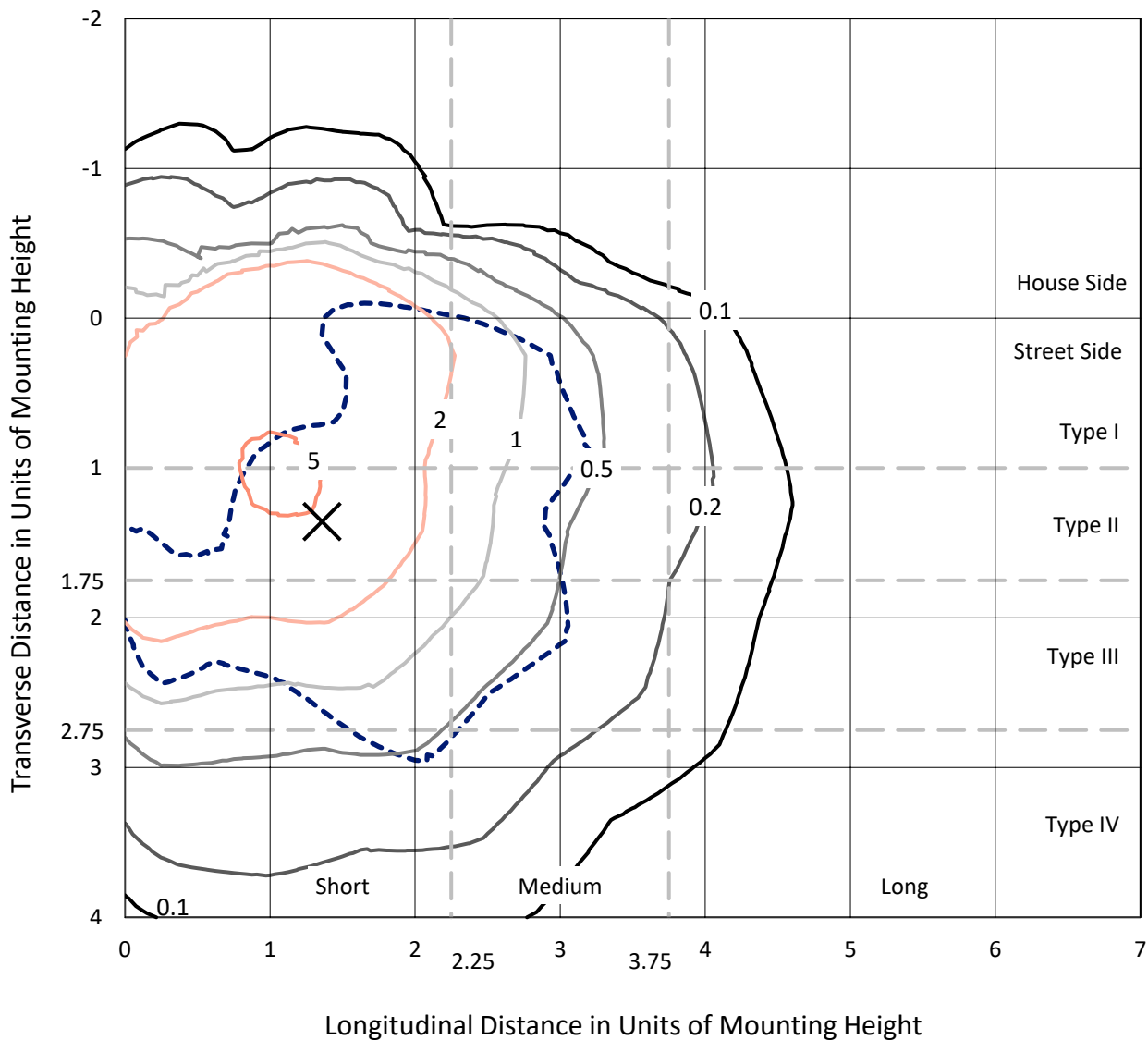
Lumens per Lamp: N/A  
Luminaire Lumens: 11271.7 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

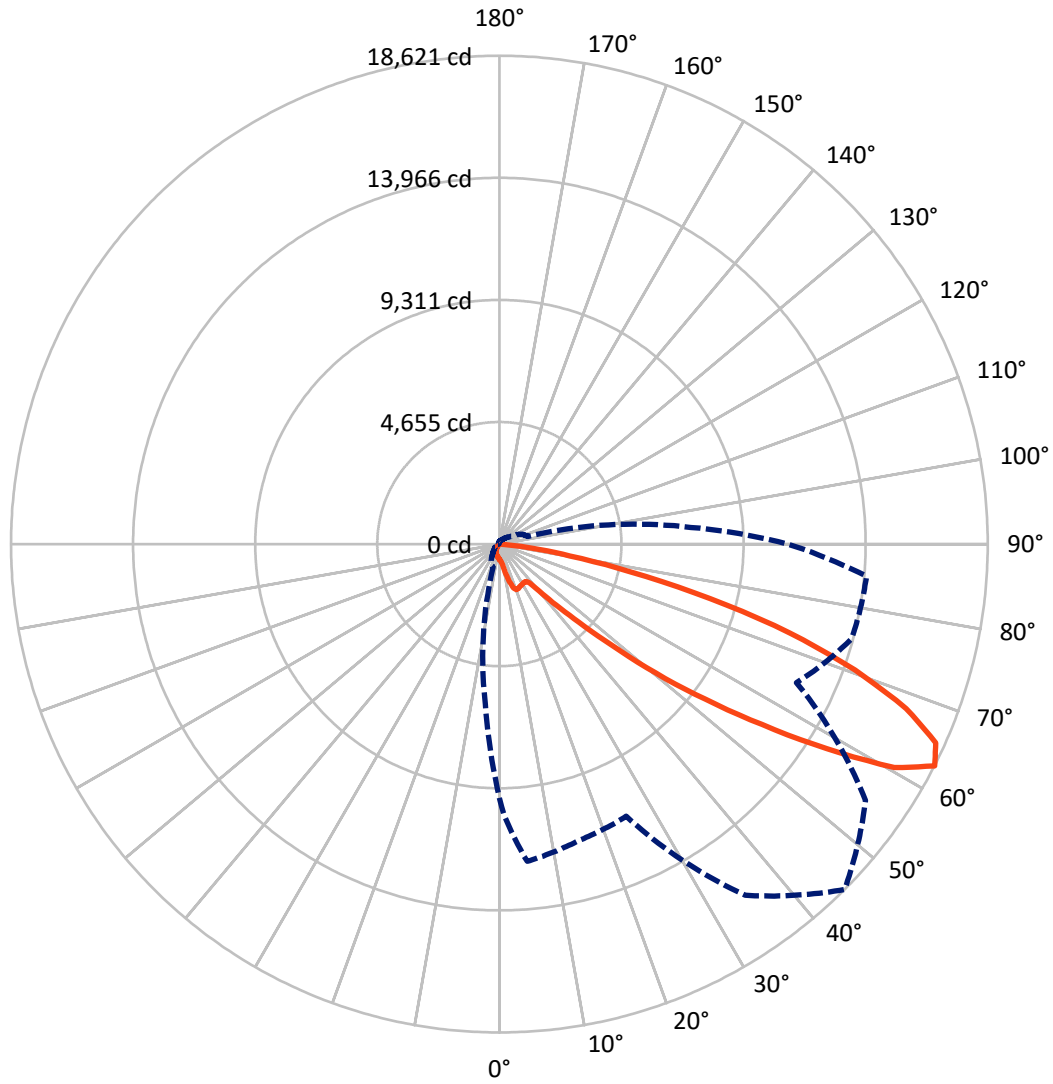
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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	1390.9	0.0	1390.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	9880.8	0.0	9880.8
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	11271.7	0.0	11271.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.0	0.5
10°-20°	196.5	1.7
20°-30°	427.2	3.8
30°-40°	701.2	6.2
40°-50°	1289.0	11.4
50°-60°	2768.2	24.6
60°-70°	3718.1	33.0
70°-80°	1936.0	17.2
80°-90°	183.6	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°	11271.7	100.0
0°-180°	11271.7	100.0

**Coefficient of Utilization**

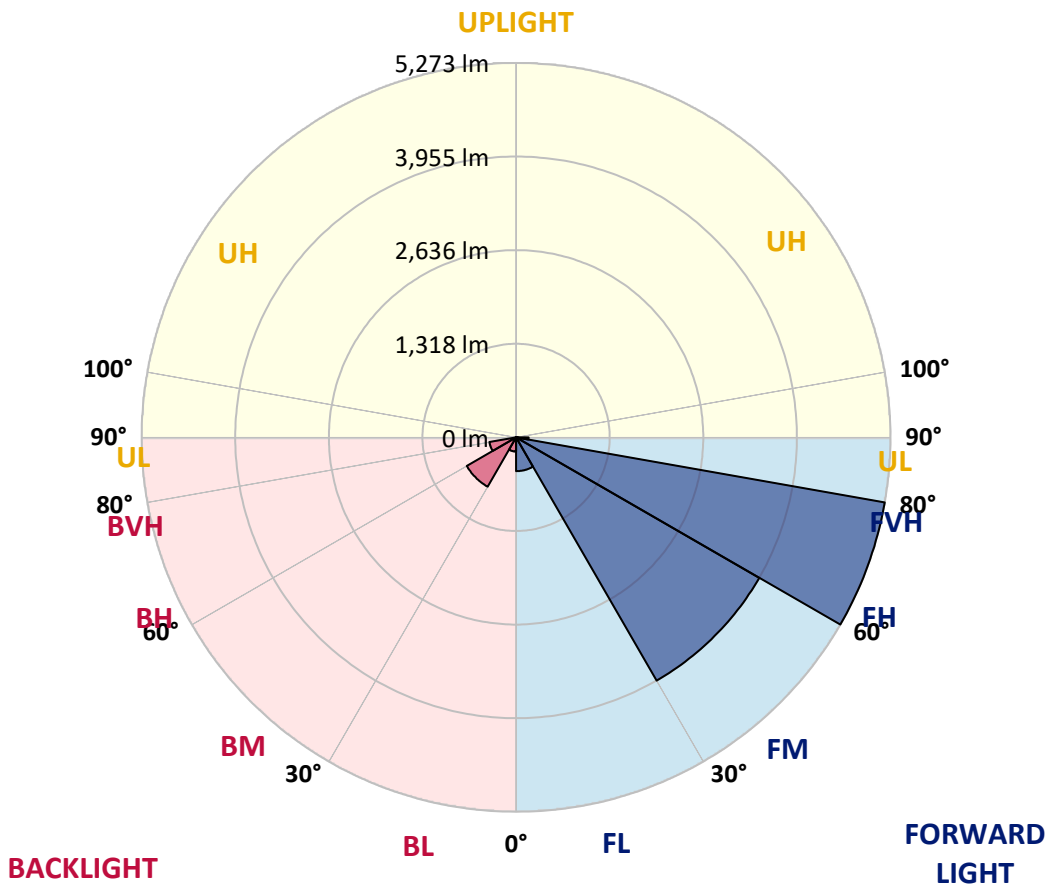


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.2	4.2			
FM (30°-60°)	3956.2	35.1			
FH (60°-80°)	5273.0	46.8			G3/7500
FVH (80°-90°)	175.4	1.6			G2/225
BL (0°-30°)	199.5	1.8	B1/500		
BM (30°-60°)	802.1	7.1	B1/1000		
BH (60°-80°)	381.1	3.4	B1/500		G1/500
BVH (80°-90°)	8.2	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-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	597.6	600.2	602.8	611.9	618.4	623.6	625.0	621.0	611.9	602.8	589.8
5°	579.4	582.0	591.1	615.8	640.6	660.1	666.6	662.7	640.6	611.9	582.0
7.5°	578.1	583.3	605.4	657.5	710.9	751.2	761.7	752.5	710.9	653.6	592.4
10°	625.0	634.1	666.6	760.4	858.0	929.6	958.3	919.2	852.8	748.6	648.4
12.5°	747.3	763.0	825.5	962.2	1113.2	1208.2	1247.3	1199.1	1095.0	943.9	785.1
15°	940.0	963.5	1057.2	1261.6	1440.0	1524.6	1537.6	1510.3	1389.2	1222.6	1009.0
17.5°	1212.1	1246.0	1391.8	1600.1	1729.0	1759.0	1755.1	1726.4	1637.9	1523.3	1321.5
20°	1537.6	1578.0	1721.2	1893.1	1906.1	1870.9	1851.4	1834.5	1804.5	1785.0	1627.5
22.5°	1865.7	1915.2	2064.9	2107.9	1990.7	1889.2	1841.0	1854.0	1898.3	1994.6	1930.8
25°	2192.5	2239.4	2380.0	2264.1	2029.8	1860.5	1799.3	1830.6	1936.0	2144.4	2226.4
27.5°	2574.0	2609.2	2692.5	2370.9	2036.3	1837.1	1777.2	1825.4	1954.3	2238.1	2550.6
30°	2971.1	2992.0	2951.6	2399.6	2014.2	1801.9	1755.1	1825.4	1985.5	2300.6	2794.1
32.5°	3262.8	3266.7	3135.2	2402.2	2002.5	1773.3	1734.2	1817.6	2015.5	2352.7	3029.7
35°	3563.5	3544.0	3310.9	2441.2	2033.7	1783.7	1749.9	1839.7	2062.3	2413.9	3236.7
37.5°	3868.2	3833.0	3507.5	2505.0	2114.4	1897.0	1876.2	1953.0	2137.9	2498.5	3464.6
40°	4180.7	4132.5	3712.0	2601.4	2294.1	2282.4	2354.0	2344.9	2344.9	2606.6	3698.9
42.5°	4562.1	4506.2	4014.0	2873.5	2713.3	2975.0	3170.3	3049.2	2825.3	2855.2	4003.6
45°	5066.0	5017.8	4537.4	3394.3	3370.8	3972.4	4235.4	3995.8	3438.5	3429.4	4512.7
47.5°	5871.9	5862.8	5372.0	3998.4	4175.5	5241.8	5749.6	5288.7	4137.7	4037.5	5476.1
50°	7004.7	6977.3	6412.3	4706.7	5132.4	6814.6	7720.8	6952.6	4982.7	4747.0	6766.4
52.5°	8280.6	8309.3	7869.2	5480.0	6149.3	8564.4	9826.1	8858.7	5900.6	5649.3	8390.0
55°	9482.3	9646.4	9530.5	6384.9	7142.7	10496.6	12138.4	10949.7	7037.2	6830.2	10210.2
57.5°	10422.4	10884.6	11697.0	7699.9	8310.6	12756.8	14720.2	13216.4	8363.9	8748.0	12687.8
60°	10474.5	11086.4	12973.0	10451.0	9813.0	14695.5	17298.1	15431.1	10449.7	12004.3	14629.1
62.5°	9689.4	10345.6	12142.3	11700.9	11449.6	16345.1	18621.0	17045.6	12501.6	13911.7	14053.6
65°	8791.0	9453.7	11215.3	10283.1	11259.6	16274.8	18285.1	17083.3	12687.8	12614.9	13023.7
67.5°	7433.0	8028.0	9623.0	9102.2	10378.1	15489.7	16733.1	16006.6	11689.2	11798.6	11980.8
70°	5425.4	5998.2	7478.6	7504.6	9063.1	14074.4	14377.8	14277.5	10764.8	10880.7	10359.9
72.5°	3919.0	4402.0	5679.3	6154.5	7235.1	11802.5	11592.9	11979.5	9236.3	9690.7	8321.0
75°	2817.5	3179.4	4166.3	5353.8	5735.2	8765.0	8298.8	9277.9	7410.9	8344.4	6256.0
77.5°	1143.1	1270.7	1639.2	3606.5	3769.2	5896.7	5080.3	6739.1	5283.4	5482.7	3032.3
80°	46.9	52.1	67.7	1861.8	2584.4	3317.5	2718.5	3602.6	3489.3	2208.2	716.1
82.5°	5.2	5.2	11.7	536.4	1131.4	1830.6	1281.2	2075.4	1766.8	936.1	325.5
85°	1.3	1.3	2.6	61.2	265.6	292.9	173.2	636.7	821.6	382.8	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	11.7	13.0	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°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	589.8	583.3	575.5	567.7	563.8	553.3	549.4	546.8	544.2	545.5	545.5
5°	570.3	555.9	539.0	522.1	513.0	502.6	497.4	494.8	496.1	501.3	501.3
7.5°	567.7	540.3	503.9	481.7	471.3	463.5	458.3	455.7	457.0	463.5	466.1
10°	610.6	562.5	497.4	459.6	447.9	440.1	434.9	431.0	428.4	433.6	434.9
12.5°	703.1	636.7	528.6	457.0	436.2	425.7	421.8	414.0	410.1	412.7	414.0
15°	894.5	779.9	591.1	467.4	425.7	414.0	407.5	401.0	394.5	393.2	394.5
17.5°	1144.4	980.4	686.1	492.1	417.9	403.6	394.5	385.4	376.3	375.0	373.7
20°	1454.3	1226.5	818.9	531.2	411.4	394.5	381.5	368.5	356.7	352.8	352.8
22.5°	1736.8	1523.3	989.5	579.4	402.3	381.5	365.9	350.2	337.2	330.7	329.4
25°	2081.9	1838.4	1193.9	635.4	389.3	364.6	347.6	332.0	319.0	311.2	308.6
27.5°	2429.5	2170.4	1425.7	708.3	373.7	347.6	332.0	317.7	303.4	294.2	291.6
30°	2766.7	2528.5	1686.1	799.4	362.0	330.7	317.7	303.4	290.3	276.0	272.1
32.5°	3128.7	2894.3	1977.7	901.0	352.8	319.0	304.7	291.6	274.7	261.7	255.2
35°	3477.6	3271.9	2299.3	999.9	343.7	308.6	292.9	279.9	261.7	247.4	238.3
37.5°	3829.1	3656.0	2635.2	1059.8	330.7	294.2	279.9	269.5	248.7	231.8	221.3
40°	4201.5	4053.1	2998.5	1035.1	319.0	278.6	270.8	259.1	235.7	216.1	203.1
42.5°	4610.3	4432.0	3368.2	940.0	308.6	265.6	257.8	246.1	223.9	200.5	183.6
45°	5124.6	4847.3	3671.6	796.8	313.8	252.6	237.0	234.4	213.5	183.6	162.7
47.5°	6008.7	5485.3	3907.3	704.4	348.9	238.3	220.0	226.5	204.4	166.7	143.2
50°	7361.4	6542.5	4127.3	697.9	402.3	231.8	204.4	221.3	195.3	149.7	126.3
52.5°	8650.4	7616.6	4267.9	755.2	449.2	248.7	188.8	214.8	188.8	138.0	114.6
55°	9883.4	8236.3	4016.6	796.8	493.5	299.5	177.1	204.4	181.0	131.5	110.7
57.5°	11212.7	8512.4	3162.5	881.4	524.7	342.4	179.7	188.8	170.6	127.6	109.4
60°	11609.8	8159.5	1908.7	992.1	507.8	355.4	199.2	168.0	156.2	119.8	105.5
62.5°	10992.6	7322.4	1126.2	903.6	493.5	335.9	227.8	154.9	141.9	109.4	97.6
65°	10069.5	6185.7	734.3	763.0	523.4	299.5	242.2	148.4	128.9	99.0	85.9
67.5°	9014.9	4982.7	514.3	450.5	483.0	269.5	204.4	147.1	115.9	83.3	70.3
70°	7593.2	3731.5	362.0	298.2	402.3	239.6	158.8	143.2	101.6	67.7	54.7
72.5°	5866.7	2335.8	269.5	192.7	286.4	195.3	126.3	121.1	82.0	56.0	41.7
75°	4326.5	1331.9	190.1	139.3	188.8	148.4	93.7	85.9	70.3	53.4	37.8
77.5°	2258.9	666.6	118.5	106.8	108.1	92.4	67.7	62.5	65.1	53.4	35.2
80°	433.6	132.8	71.6	78.1	58.6	58.6	49.5	52.1	57.3	43.0	29.9
82.5°	181.0	28.6	39.1	44.3	36.5	40.4	40.4	41.7	40.4	31.2	22.1
85°	0.0	0.0	16.9	18.2	24.7	24.7	20.8	20.8	20.8	18.2	13.0
87.5°	0.0	0.0	0.0	0.0	1.3	3.9	7.8	9.1	10.4	7.8	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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	544.2	541.6	545.5	548.1	550.7	550.7	548.1	545.5	541.6	545.5	541.6
5°	502.6	506.5	513.0	515.6	518.2	513.0	510.4	502.6	496.1	497.4	494.8
7.5°	470.0	473.9	481.7	486.9	486.9	484.3	476.5	468.7	458.3	458.3	457.0
10°	440.1	445.3	454.4	460.9	463.5	460.9	453.1	442.7	433.6	433.6	429.7
12.5°	415.3	421.8	432.3	441.4	444.0	441.4	433.6	423.1	412.7	412.7	410.1
15°	394.5	402.3	414.0	424.4	428.4	424.4	415.3	402.3	391.9	393.2	389.3
17.5°	375.0	381.5	397.1	408.8	412.7	408.8	397.1	380.2	369.8	372.4	369.8
20°	352.8	360.6	376.3	389.3	393.2	389.3	376.3	358.0	347.6	347.6	348.9
22.5°	329.4	337.2	352.8	362.0	367.2	363.3	350.2	333.3	322.9	322.9	324.2
25°	308.6	312.5	324.2	333.3	334.6	330.7	320.3	307.3	299.5	303.4	304.7
27.5°	289.0	289.0	294.2	299.5	298.2	294.2	290.3	279.9	278.6	282.5	286.4
30°	268.2	261.7	259.1	255.2	253.9	252.6	256.5	256.5	259.1	264.3	268.2
32.5°	250.0	237.0	225.2	213.5	207.0	212.2	222.6	231.8	240.9	248.7	252.6
35°	229.1	208.3	188.8	173.2	162.7	170.6	187.5	204.4	220.0	230.5	237.0
37.5°	208.3	178.4	154.9	135.4	127.6	134.1	152.3	175.8	199.2	212.2	221.3
40°	186.2	148.4	121.1	105.5	97.6	104.2	122.4	145.8	177.1	194.0	205.7
42.5°	164.0	122.4	97.6	82.0	78.1	82.0	96.3	119.8	153.6	174.5	190.1
45°	141.9	101.6	78.1	66.4	62.5	66.4	78.1	97.6	131.5	154.9	173.2
47.5°	122.4	85.9	65.1	54.7	52.1	56.0	65.1	82.0	110.7	134.1	154.9
50°	106.8	75.5	56.0	46.9	44.3	48.2	56.0	69.0	93.7	114.6	136.7
52.5°	96.3	70.3	49.5	40.4	39.1	41.7	48.2	58.6	79.4	97.6	118.5
55°	93.7	70.3	45.6	36.5	35.2	37.8	43.0	50.8	69.0	84.6	102.9
57.5°	96.3	75.5	43.0	31.2	29.9	32.5	37.8	44.3	59.9	72.9	89.8
60°	96.3	76.8	37.8	24.7	23.4	26.0	31.2	39.1	53.4	63.8	78.1
62.5°	87.2	70.3	31.2	19.5	16.9	19.5	26.0	32.5	46.9	57.3	69.0
65°	75.5	59.9	26.0	14.3	11.7	14.3	20.8	27.3	40.4	49.5	62.5
67.5°	61.2	45.6	19.5	10.4	7.8	10.4	15.6	22.1	33.9	43.0	56.0
70°	45.6	32.5	15.6	9.1	7.8	9.1	14.3	20.8	29.9	39.1	52.1
72.5°	33.9	22.1	13.0	9.1	6.5	9.1	13.0	19.5	28.6	37.8	49.5
75°	28.6	18.2	11.7	7.8	6.5	7.8	11.7	18.2	26.0	35.2	46.9
77.5°	27.3	16.9	10.4	6.5	5.2	6.5	10.4	15.6	23.4	32.5	45.6
80°	23.4	14.3	9.1	5.2	3.9	5.2	9.1	13.0	18.2	24.7	35.2
82.5°	18.2	11.7	6.5	2.6	1.3	2.6	6.5	7.8	11.7	14.3	20.8
85°	11.7	6.5	2.6	0.0	0.0	0.0	2.6	5.2	5.2	6.5	10.4
87.5°	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9
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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CATALOG NUMBER: GWS-SA5B-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9	585.9
2.5°	549.4	550.7	553.3	557.2	566.4	574.2	582.0	592.4	597.6	597.6
5°	497.4	498.7	500.0	505.2	518.2	528.6	545.5	566.4	576.8	579.4
7.5°	457.0	459.6	462.2	466.1	479.1	493.5	515.6	554.6	574.2	578.1
10°	433.6	437.5	442.7	450.5	462.2	477.8	515.6	585.9	618.4	625.0
12.5°	415.3	421.8	427.1	436.2	450.5	475.2	550.7	674.4	731.7	747.3
15°	397.1	404.9	412.7	421.8	437.5	484.3	618.4	833.3	928.3	940.0
17.5°	378.9	388.0	398.4	408.8	428.4	506.5	725.2	1053.3	1186.1	1212.1
20°	358.0	369.8	384.1	397.1	419.2	541.6	873.6	1315.0	1481.7	1537.6
22.5°	335.9	350.2	367.2	384.1	408.8	584.6	1053.3	1596.2	1829.3	1865.7
25°	317.7	332.0	347.6	364.6	391.9	636.7	1270.7	1945.2	2157.4	2192.5
27.5°	300.8	315.1	329.4	345.0	375.0	704.4	1532.4	2316.2	2537.6	2574.0
30°	282.5	299.5	313.8	329.4	359.3	787.7	1834.5	2727.7	2937.3	2971.1
32.5°	266.9	283.8	298.2	313.8	347.6	878.8	2152.2	3092.2	3262.8	3262.8
35°	253.9	272.1	282.5	303.4	338.5	937.4	2452.9	3439.8	3568.7	3563.5
37.5°	239.6	261.7	269.5	283.8	326.8	943.9	2735.5	3807.0	3902.0	3868.2
40°	225.2	248.7	260.4	268.2	313.8	890.6	3045.3	4144.2	4224.9	4180.7
42.5°	212.2	230.5	247.4	256.5	306.0	796.8	3294.0	4504.9	4601.2	4562.1
45°	199.2	214.8	225.2	242.2	311.2	731.7	3507.5	4925.4	5094.7	5066.0
47.5°	186.2	199.2	205.7	231.8	346.3	701.8	3637.7	5576.4	5895.4	5871.9
50°	171.9	187.5	187.5	229.1	398.4	712.2	3751.0	6519.0	7012.5	7004.7
52.5°	157.5	174.5	171.9	248.7	438.8	760.4	3879.9	7351.0	8209.0	8280.6
55°	143.2	158.8	161.4	287.7	462.2	802.0	3381.3	7701.2	9231.1	9482.3
57.5°	127.6	136.7	168.0	317.7	454.4	923.1	2316.2	7765.0	9883.4	10422.4
60°	110.7	118.5	190.1	311.2	429.7	852.8	1458.2	7192.2	9790.9	10474.5
62.5°	96.3	109.4	200.5	274.7	437.5	739.5	929.6	6129.7	8909.5	9689.4
65°	84.6	105.5	182.3	248.7	442.7	501.3	627.6	4986.6	8048.9	8791.0
67.5°	75.5	117.2	149.7	221.3	380.2	352.8	431.0	3874.7	6767.7	7433.0
70°	69.0	119.8	122.4	190.1	294.2	226.5	283.8	2607.9	4665.0	5425.4
72.5°	62.5	88.5	92.4	152.3	190.1	138.0	183.6	1492.1	3400.8	3919.0
75°	59.9	59.9	63.8	99.0	105.5	100.3	118.5	890.6	2438.6	2817.5
77.5°	56.0	45.6	40.4	63.8	57.3	71.6	70.3	395.8	1057.2	1143.1
80°	44.3	32.5	27.3	40.4	39.1	48.2	41.7	32.5	48.2	46.9
82.5°	27.3	20.8	19.5	24.7	22.1	24.7	19.5	5.2	5.2	5.2
85°	13.0	11.7	10.4	10.4	11.7	10.4	7.8	2.6	1.3	1.3
87.5°	6.5	6.5	5.2	3.9	5.2	5.2	3.9	1.3	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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