

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: P640791

Luminaire Tested: GWS-SA5E-750-U-SLL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640791  
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-SA5E-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**

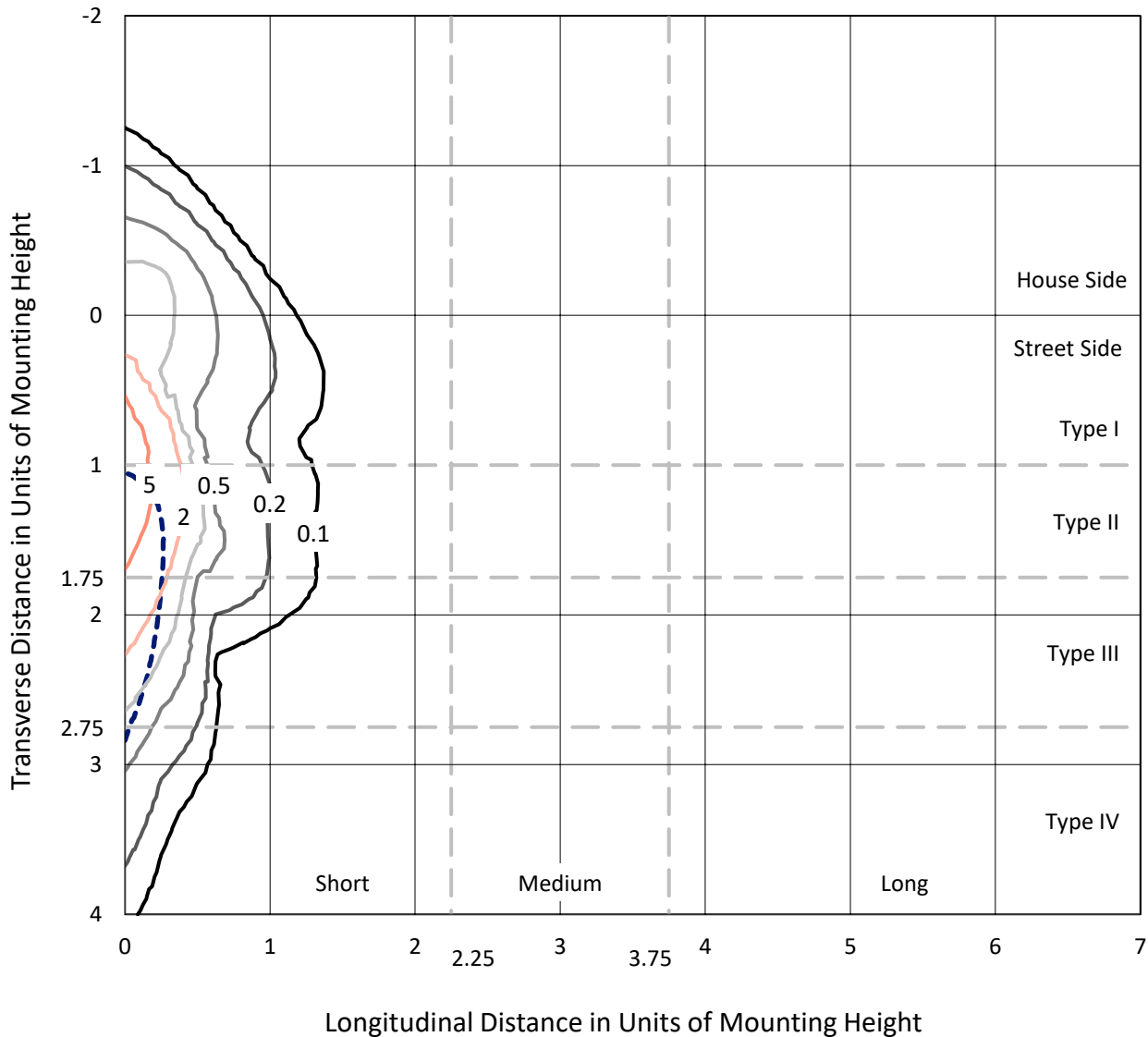
Lumens per Lamp: N/A  
Luminaire Lumens: 23250.6 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

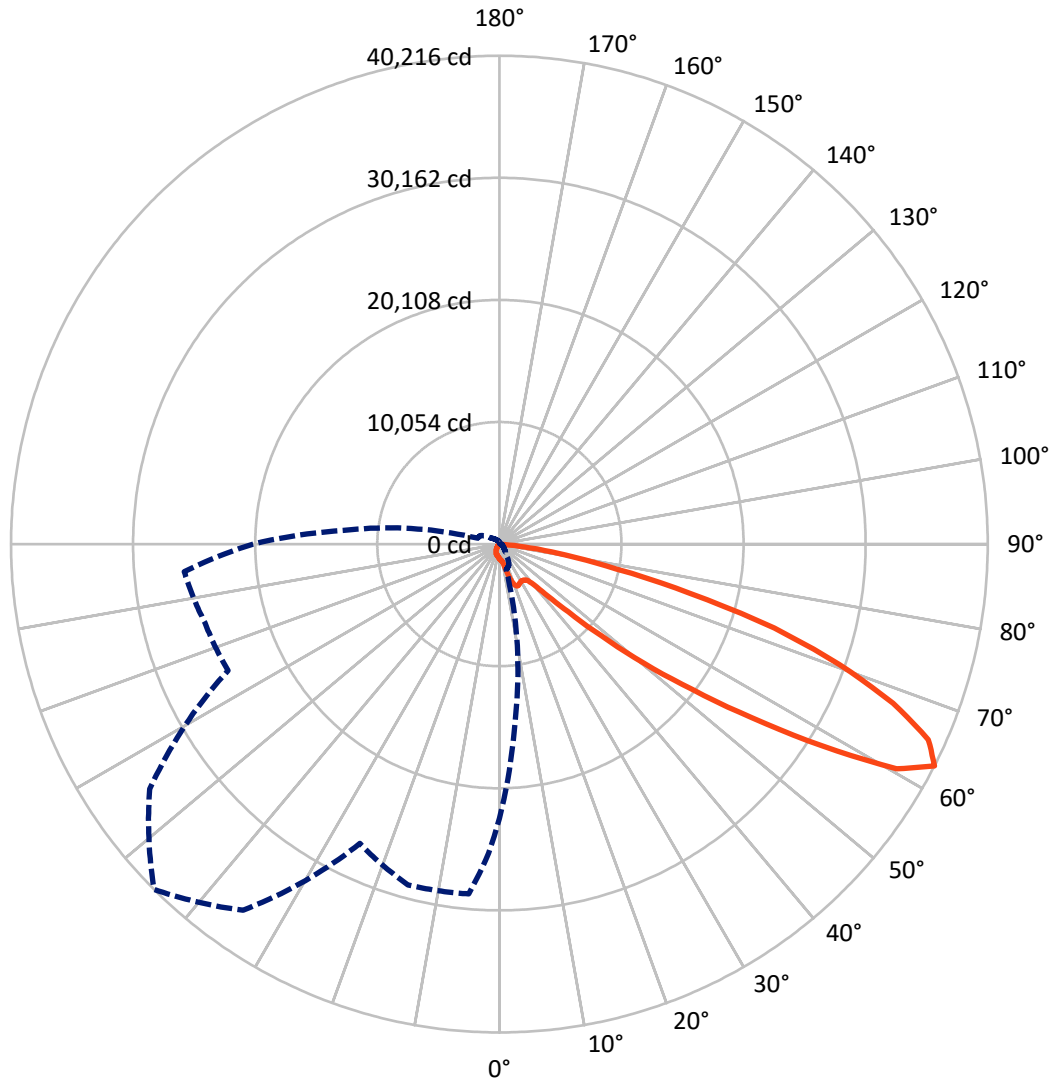
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2701.4	0.0	2701.4
	% Fixture	11.6	0.0	11.6
<b>Street Side</b>	Lumens	20549.2	0.0	20549.2
	% Fixture	88.4	0.0	88.4
<b>Total</b>	Lumens	23250.6	0.0	23250.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.1	0.4
10°-20°	356.9	1.5
20°-30°	806.3	3.5
30°-40°	1389.0	6.0
40°-50°	2620.2	11.3
50°-60°	5850.1	25.2
60°-70°	7824.4	33.7
70°-80°	3923.7	16.9
80°-90°	376.1	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°	23250.6	100.0
0°-180°	23250.6	100.0

**Coefficient of Utilization**



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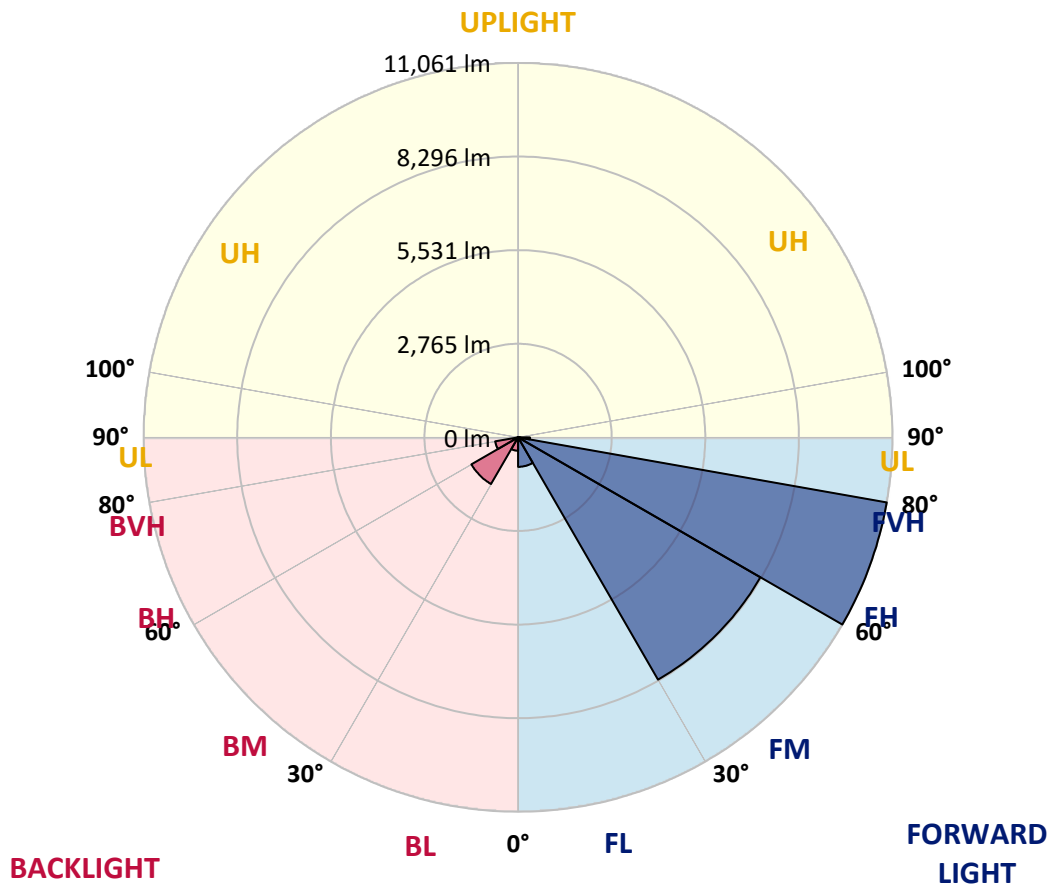
CATALOG NUMBER: GWS-SA5E-750-U-SLL-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.8	3.7			
FM (30°-60°)	8266.3	35.6			
FH (60°-80°)	11061.1	47.6			G4/12000
FVH (80°-90°)	351.1	1.5			G3/500
BL (0°-30°)	396.5	1.7	B1/500		
BM (30°-60°)	1592.9	6.9	B2/2500		
BH (60°-80°)	687.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	25.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1192.0	1189.3	1183.8	1167.3	1153.5	1145.2	1128.7	1128.7	1126.0	1120.5	1109.5
5°	1153.5	1142.5	1131.5	1101.2	1068.2	1048.9	1026.9	1024.1	1024.1	1018.6	1015.9
7.5°	1092.9	1081.9	1068.2	1018.6	988.3	969.1	949.8	947.0	938.8	938.8	938.8
10°	1059.9	1043.4	1021.4	966.3	936.0	919.5	905.7	897.5	892.0	883.7	881.0
12.5°	1131.5	1101.2	1054.4	955.3	914.0	892.0	875.5	869.9	853.4	842.4	834.2
15°	1354.5	1280.1	1186.5	980.1	905.7	872.7	850.7	839.7	825.9	806.6	792.9
17.5°	1720.6	1613.3	1456.3	1059.9	897.5	856.2	828.6	809.4	790.1	768.1	751.6
20°	2227.2	2067.5	1880.3	1205.8	897.5	836.9	803.9	779.1	751.6	726.8	707.5
22.5°	2871.4	2711.7	2392.3	1453.6	908.5	812.1	773.6	740.6	707.5	685.5	663.5
25°	3592.7	3366.9	3069.6	1753.7	938.8	779.1	737.8	704.8	674.5	647.0	622.2
27.5°	4396.5	4151.5	3755.1	2180.4	1004.8	746.1	699.3	669.0	641.4	613.9	580.9
30°	5137.1	4991.2	4586.5	2692.4	1112.2	724.0	669.0	641.4	613.9	578.1	547.8
32.5°	6026.3	5767.5	5434.4	3276.1	1255.4	702.0	644.2	605.7	583.6	550.6	517.6
35°	6921.0	6700.8	6263.1	3994.6	1415.0	680.0	613.9	578.1	558.9	520.3	484.5
37.5°	7843.3	7793.7	7361.5	4790.2	1572.0	655.2	578.1	556.1	536.8	492.8	451.5
40°	8751.8	8660.9	8261.7	5698.7	1668.3	627.7	547.8	534.1	512.1	462.5	415.7
42.5°	9621.7	9552.9	9164.7	6568.6	1654.5	602.9	517.6	501.0	484.5	435.0	377.2
45°	10689.9	10577.0	10087.0	7212.8	1514.1	630.4	487.3	459.7	457.0	410.2	338.6
47.5°	12688.5	12316.9	11485.5	7708.4	1373.7	702.0	454.2	421.2	440.5	385.4	300.1
50°	15488.3	15050.6	13847.5	8093.8	1371.0	795.6	448.7	385.4	426.7	366.1	267.0
52.5°	18301.9	17531.0	16069.2	8300.3	1472.8	864.4	498.3	349.6	410.2	346.9	242.3
55°	20997.1	19397.6	16999.7	7617.5	1552.7	938.8	589.1	330.4	379.9	324.9	228.5
57.5°	23565.6	20897.9	17404.4	6026.3	1819.7	969.1	644.2	338.6	335.9	297.3	217.5
60°	23918.0	20826.4	16586.8	3504.6	2006.9	916.7	622.2	377.2	294.6	264.3	198.2
62.5°	22585.5	19441.6	14723.0	2185.9	1863.8	897.5	553.4	429.5	267.0	234.0	173.4
65°	20562.1	17269.5	12275.6	1409.5	1412.3	996.6	484.5	421.2	250.5	206.5	148.7
67.5°	17398.9	14453.2	9671.3	944.3	798.4	850.7	424.0	289.1	245.0	176.2	115.6
70°	12699.5	10287.9	6296.1	630.4	476.3	680.0	355.1	206.5	231.3	145.9	82.6
72.5°	9283.1	6912.8	3515.6	412.9	269.8	396.4	261.5	148.7	178.9	107.4	57.8
75°	6681.5	4757.2	2006.9	264.3	178.9	217.5	170.7	101.9	115.6	85.3	52.3
77.5°	3215.5	2318.0	911.2	145.9	121.1	110.1	90.8	63.3	71.6	77.1	46.8
80°	121.1	90.8	68.8	71.6	77.1	49.6	41.3	33.0	41.3	52.3	24.8
82.5°	0.0	0.0	0.0	8.3	11.0	13.8	16.5	13.8	16.5	19.3	2.8
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°	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1117.7	1112.2	1117.7	1123.2	1128.7	1134.2	1126.0	1131.5	1137.0	1123.2	1128.7
5°	1029.6	1026.9	1043.4	1051.6	1062.7	1068.2	1062.7	1062.7	1059.9	1043.4	1043.4
7.5°	952.5	955.3	969.1	988.3	1002.1	1010.3	1004.8	1002.1	993.8	969.1	969.1
10°	894.7	894.7	916.7	933.3	952.5	960.8	955.3	947.0	938.8	914.0	911.2
12.5°	847.9	847.9	864.4	892.0	914.0	925.0	922.3	911.2	897.5	872.7	869.9
15°	803.9	801.1	825.9	850.7	881.0	894.7	889.2	881.0	856.2	834.2	828.6
17.5°	759.8	757.1	779.1	812.1	845.2	864.4	861.7	842.4	820.4	792.9	787.4
20°	715.8	710.3	737.8	770.8	803.9	823.1	817.6	801.1	773.6	746.1	740.6
22.5°	671.7	669.0	688.2	715.8	746.1	762.6	759.8	746.1	718.5	693.8	693.8
25°	622.2	622.2	635.9	655.2	677.2	685.5	688.2	682.7	666.2	652.5	652.5
27.5°	580.9	572.6	578.1	583.6	594.6	608.4	608.4	613.9	616.7	611.2	613.9
30°	547.8	534.1	525.8	514.8	509.3	514.8	520.3	539.6	558.9	569.9	575.4
32.5°	509.3	492.8	470.8	440.5	421.2	415.7	432.2	468.0	503.8	528.6	542.3
35°	470.8	448.7	407.4	363.4	338.6	330.4	349.6	390.9	443.2	487.3	506.6
37.5°	432.2	401.9	344.1	291.8	264.3	258.8	278.1	322.1	382.7	443.2	468.0
40°	388.2	352.4	283.6	228.5	206.5	201.0	217.5	261.5	324.9	393.7	432.2
42.5°	344.1	300.1	228.5	181.7	159.7	159.7	181.7	214.7	272.5	346.9	393.7
45°	300.1	253.3	187.2	145.9	132.1	134.9	148.7	181.7	228.5	305.6	349.6
47.5°	258.8	217.5	154.2	121.1	110.1	112.9	129.4	156.9	195.5	264.3	311.1
50°	223.0	184.5	134.9	101.9	93.6	99.1	115.6	140.4	173.4	234.0	272.5
52.5°	201.0	165.2	123.9	88.1	82.6	88.1	104.6	126.6	156.9	206.5	245.0
55°	190.0	162.4	123.9	79.8	71.6	77.1	93.6	115.6	140.4	187.2	220.2
57.5°	187.2	167.9	132.1	71.6	60.6	66.1	82.6	104.6	129.4	170.7	198.2
60°	176.2	159.7	129.4	57.8	46.8	55.1	68.8	90.8	118.4	159.7	184.5
62.5°	154.2	140.4	112.9	46.8	35.8	41.3	57.8	79.8	107.4	145.9	173.4
65°	126.6	112.9	88.1	30.3	22.0	27.5	44.0	68.8	93.6	132.1	156.9
67.5°	93.6	79.8	60.6	19.3	11.0	19.3	35.8	57.8	85.3	118.4	143.2
70°	57.8	46.8	33.0	11.0	8.3	16.5	33.0	55.1	77.1	110.1	134.9
72.5°	33.0	22.0	13.8	5.5	8.3	16.5	33.0	55.1	74.3	104.6	126.6
75°	24.8	13.8	5.5	2.8	5.5	13.8	30.3	49.6	71.6	99.1	121.1
77.5°	16.5	8.3	2.8	0.0	2.8	11.0	27.5	46.8	66.1	93.6	115.6
80°	2.8	0.0	0.0	0.0	0.0	8.3	24.8	41.3	60.6	82.6	101.9
82.5°	0.0	0.0	0.0	0.0	0.0	2.8	19.3	35.8	52.3	68.8	82.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	11.0	27.5	41.3	52.3	57.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	27.5	33.0	38.5
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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1126.0	1142.5	1142.5	1153.5	1167.3	1192.0	1205.8	1225.1	1238.8	1252.6	1258.1
5°	1040.6	1043.4	1046.1	1051.6	1068.2	1095.7	1120.5	1150.7	1186.5	1214.1	1230.6
7.5°	969.1	969.1	969.1	977.3	993.8	1013.1	1037.9	1079.2	1120.5	1153.5	1181.0
10°	908.5	916.7	919.5	933.3	952.5	977.3	1004.8	1040.6	1087.4	1131.5	1181.0
12.5°	869.9	878.2	892.0	905.7	925.0	952.5	982.8	1029.6	1126.0	1216.8	1321.4
15°	834.2	845.2	861.7	881.0	903.0	933.3	966.3	1062.7	1288.4	1459.1	1624.3
17.5°	795.6	812.1	834.2	853.4	881.0	914.0	955.3	1142.5	1585.7	1869.3	2150.1
20°	746.1	768.1	792.9	823.1	856.2	894.7	955.3	1307.7	2015.2	2422.6	2794.3
22.5°	699.3	721.3	751.6	790.1	828.6	867.2	969.1	1558.2	2568.5	3083.3	3554.1
25°	660.7	688.2	718.5	751.6	795.6	839.7	1002.1	1910.6	3234.8	3898.2	4231.3
27.5°	624.9	658.0	688.2	715.8	754.3	803.9	1076.4	2381.3	4022.1	4696.6	4958.1
30°	589.1	627.7	658.0	685.5	724.0	776.3	1189.3	2981.5	4897.6	5552.8	5580.3
32.5°	558.9	594.6	630.4	658.0	693.8	754.3	1346.2	3683.5	5795.0	6428.2	6169.5
35°	525.8	567.1	600.2	630.4	669.0	735.0	1527.9	4440.6	6700.8	7232.1	6755.8
37.5°	492.8	539.6	580.9	602.9	641.4	715.8	1660.1	5230.7	7625.8	8016.7	7270.6
40°	462.5	514.8	561.6	583.6	602.9	691.0	1679.3	6040.1	8564.6	8790.3	7755.2
42.5°	429.5	487.3	528.6	558.9	575.4	674.5	1563.7	6722.8	9351.9	9561.1	8388.4
45°	393.7	462.5	495.5	517.6	550.6	685.5	1415.0	7251.4	10252.1	10612.8	9431.7
47.5°	357.9	435.0	462.5	479.0	523.1	751.6	1360.0	7603.8	11736.0	12484.8	11190.9
50°	324.9	410.2	440.5	437.7	517.6	836.9	1420.5	7870.8	13965.9	14846.9	13602.5
52.5°	289.1	382.7	418.5	407.4	558.9	903.0	1541.7	8082.8	15681.0	17616.4	16842.8
55°	258.8	352.4	385.4	382.7	635.9	952.5	1635.3	6965.1	16391.3	20190.4	20493.3
57.5°	236.8	319.3	346.9	393.7	685.5	952.5	1891.3	4944.4	16405.1	22084.5	25338.5
60°	217.5	289.1	308.3	432.2	666.2	903.0	1872.0	3028.3	15119.4	21955.1	27915.3
62.5°	201.0	261.5	286.3	443.2	589.1	894.7	1690.3	1877.5	12895.0	20284.0	26046.0
65°	187.2	239.5	275.3	407.4	534.1	958.0	1139.7	1349.0	10458.6	18379.0	23901.5
67.5°	173.4	220.2	291.8	333.1	484.5	856.2	823.1	958.0	8209.4	16289.4	21933.1
70°	162.4	209.2	308.3	272.5	424.0	669.0	583.6	726.8	6285.1	13591.5	19160.8
72.5°	154.2	195.5	258.8	214.7	344.1	517.6	407.4	528.6	4107.5	10610.0	15620.5
75°	145.9	178.9	190.0	173.4	256.0	338.6	308.3	355.1	2447.4	7755.2	11851.6
77.5°	143.2	167.9	154.2	140.4	173.4	201.0	234.0	239.5	1194.8	3879.0	6210.7
80°	126.6	151.4	132.1	115.6	118.4	132.1	173.4	159.7	272.5	985.6	1657.3
82.5°	99.1	118.4	110.1	96.4	96.4	96.4	115.6	107.4	88.1	443.2	748.8
85°	68.8	82.6	82.6	77.1	74.3	74.3	71.6	68.8	24.8	27.5	41.3
87.5°	46.8	57.8	60.6	57.8	49.6	44.0	38.5	33.0	11.0	0.0	5.5
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-SA5E-750-U-SLL-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8	1205.8
2.5°	1277.4	1285.6	1285.6	1274.6	1266.4	1244.4	1222.3	1200.3	1194.8	1192.0
5°	1277.4	1310.4	1326.9	1324.2	1304.9	1269.1	1222.3	1172.8	1159.0	1153.5
7.5°	1258.1	1321.4	1371.0	1379.2	1343.5	1280.1	1194.8	1120.5	1101.2	1092.9
10°	1302.2	1426.0	1525.2	1538.9	1497.6	1373.7	1236.1	1109.5	1079.2	1059.9
12.5°	1538.9	1742.6	1863.8	1921.6	1841.8	1684.8	1456.3	1230.6	1161.8	1131.5
15°	2017.9	2307.0	2538.3	2538.3	2463.9	2185.9	1896.8	1530.7	1437.1	1354.5
17.5°	2631.9	2995.3	3199.0	3177.0	3064.1	2868.6	2521.7	1995.9	1806.0	1720.6
20°	3331.1	3548.6	3595.4	3581.6	3532.1	3419.2	3179.7	2615.3	2359.3	2227.2
22.5°	3936.8	3879.0	3810.1	3755.1	3741.3	3774.3	3741.3	3306.3	3105.4	2871.4
25°	4347.0	4019.4	3812.9	3713.8	3760.6	3950.5	4157.0	3994.6	3834.9	3592.7
27.5°	4570.0	4002.8	3705.5	3603.7	3683.5	3953.3	4402.0	4677.3	4512.2	4396.5
30°	4691.1	3989.1	3636.7	3537.6	3658.7	3997.3	4572.7	5316.0	5321.5	5137.1
32.5°	4864.5	4077.2	3650.5	3559.6	3722.0	4129.5	4787.4	5965.7	6125.4	6026.3
35°	5060.0	4212.1	3713.8	3631.2	3832.2	4305.7	5027.0	6620.9	6954.1	6921.0
37.5°	5244.4	4363.5	3862.4	3782.6	4000.1	4457.1	5258.2	7265.1	7727.6	7843.3
40°	5437.2	4575.5	4319.4	4396.5	4517.7	4696.6	5464.7	7824.0	8578.3	8751.8
42.5°	5891.4	5310.5	5701.4	5847.4	5863.9	5495.0	5916.2	8539.8	9415.2	9621.7
45°	6904.5	6618.2	7738.7	7945.1	7837.8	6720.0	7003.6	9572.1	10585.2	10689.9
47.5°	8184.6	8316.8	10527.4	11240.5	10596.3	8165.4	8322.3	11744.3	12727.1	12688.5
50°	9676.8	10301.7	13693.4	15375.4	13833.8	10042.9	9841.9	14414.7	15606.7	15488.3
52.5°	11441.4	12608.7	17498.0	19887.6	18428.5	12154.4	12071.9	17952.2	18679.0	18301.9
55°	13663.1	14835.9	21875.3	25214.6	23138.9	14731.2	15014.8	22054.2	22194.6	20997.1
57.5°	16977.7	17740.3	27034.4	31323.5	28055.7	18233.1	20289.5	27513.4	25834.1	23565.6
60°	22995.7	21476.1	32020.0	37572.8	33286.4	23158.2	27246.3	30748.1	27045.4	23918.0
62.5°	25090.7	24647.5	35141.9	40215.7	36804.7	27202.3	29055.1	28914.7	25476.2	22585.5
65°	21916.6	23857.4	34583.1	38819.9	36353.2	26536.1	26073.6	26891.2	23708.7	20562.1
67.5°	20245.5	22001.9	32466.0	34968.5	33850.8	24275.9	23240.7	23017.7	19904.1	17398.9
70°	18560.7	20300.5	29396.4	29707.5	29187.2	20592.4	19232.4	17737.5	14877.2	12699.5
72.5°	16534.5	17492.5	25137.5	23661.9	23072.8	16173.8	15887.5	13357.5	11152.4	9283.1
75°	14420.2	14142.1	19598.5	16239.9	16680.4	12583.9	13418.1	9808.9	8170.9	6681.5
77.5°	10488.9	10282.4	13126.3	9864.0	10923.9	8242.5	7405.5	3914.8	3727.5	3215.5
80°	5852.9	7055.9	7088.9	5528.0	6896.2	5373.8	1852.8	129.4	82.6	121.1
82.5°	2720.0	3033.8	3843.2	2563.0	3934.0	2662.1	382.7	0.0	0.0	0.0
85°	881.0	1288.4	1079.2	377.2	952.5	900.2	63.3	0.0	0.0	0.0
87.5°	52.3	107.4	27.5	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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