

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: P640795

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640795  
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-SA5E-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**

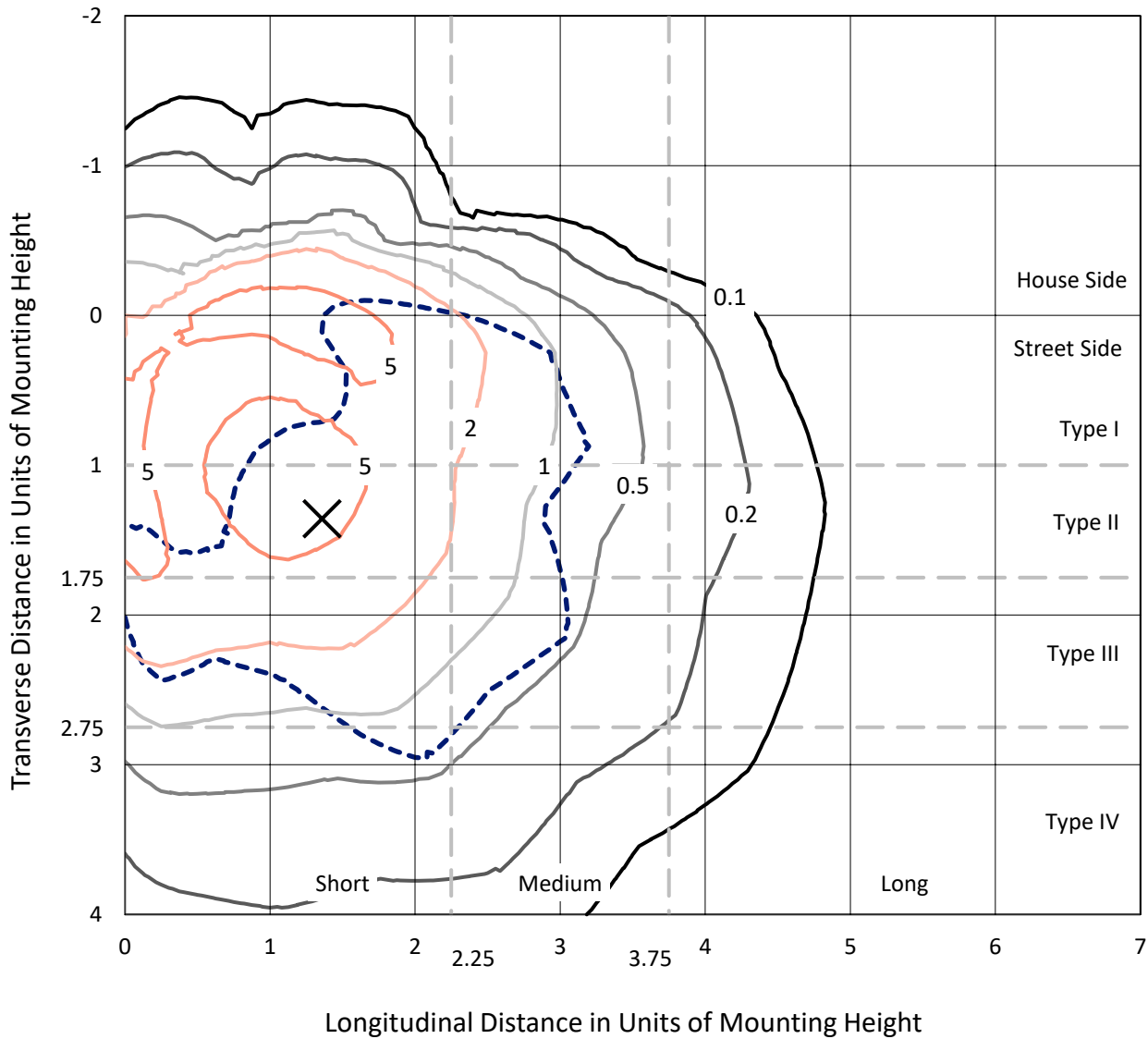
Lumens per Lamp: N/A  
Luminaire Lumens: 23831.4 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

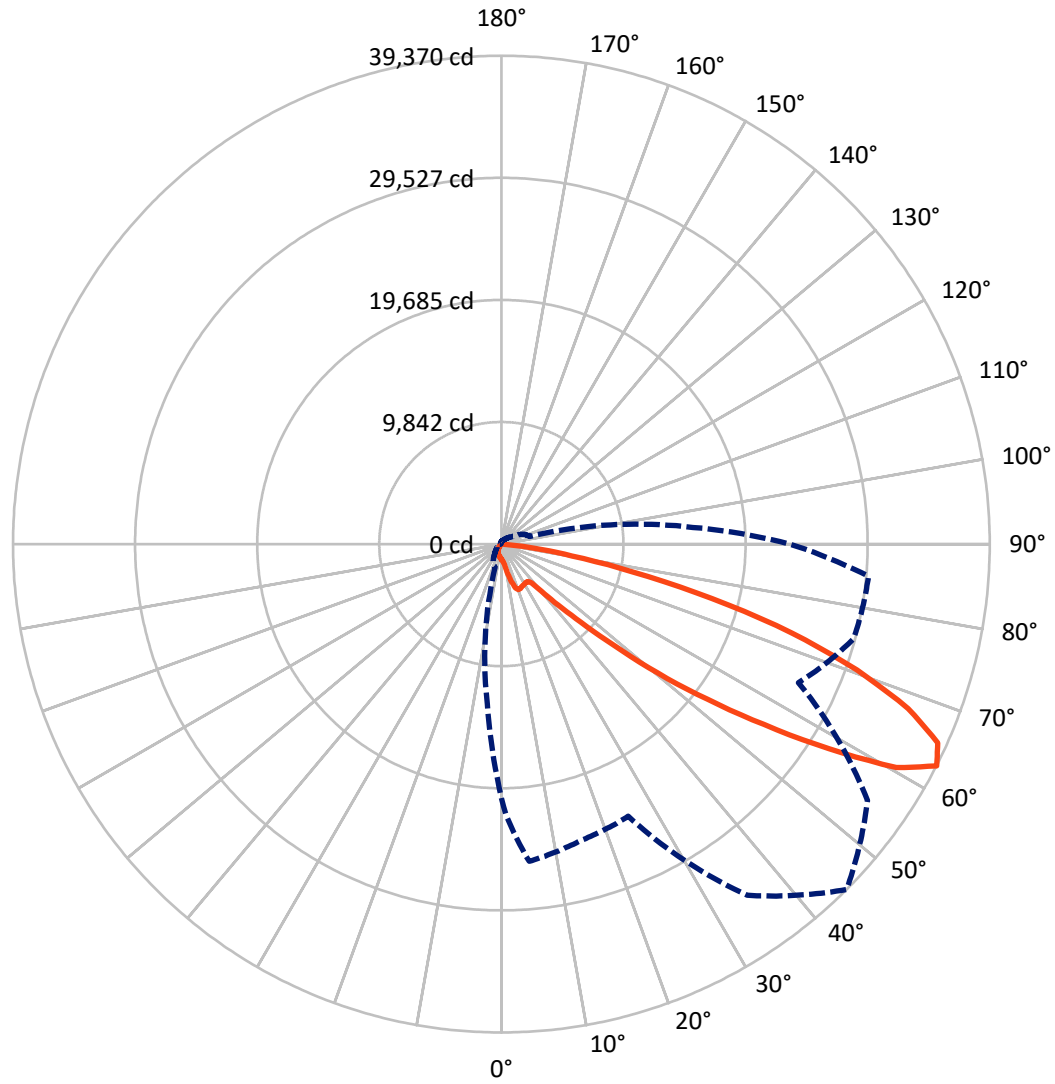
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2940.8	0.0	2940.8
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	20890.6	0.0	20890.6
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	23831.4	0.0	23831.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.9	0.5
10°-20°	415.5	1.7
20°-30°	903.2	3.8
30°-40°	1482.5	6.2
40°-50°	2725.3	11.4
50°-60°	5852.6	24.6
60°-70°	7861.0	33.0
70°-80°	4093.3	17.2
80°-90°	388.1	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°	23831.4	100.0
0°-180°	23831.4	100.0

**Coefficient of Utilization**



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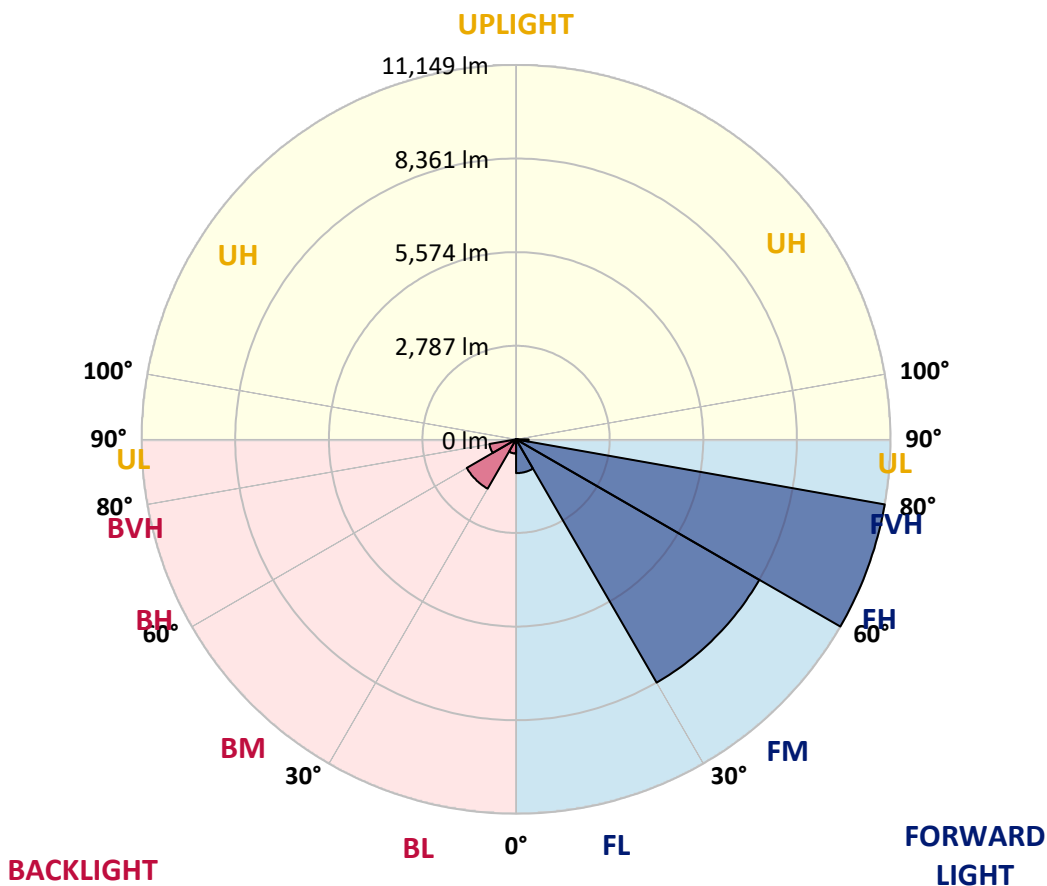
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1006.8	4.2			
FM (30°-60°)	8364.5	35.1			
FH (60°-80°)	11148.5	46.8			G4/12000
FVH (80°-90°)	370.8	1.6			G3/500
BL (0°-30°)	421.8	1.8	B1/500		
BM (30°-60°)	1695.8	7.1	B2/2500		
BH (60°-80°)	805.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	17.3	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1263.5	1269.0	1274.5	1293.8	1307.6	1318.6	1321.3	1313.1	1293.8	1274.5	1247.0
5°	1225.0	1230.5	1249.7	1302.0	1354.3	1395.6	1409.4	1401.1	1354.3	1293.8	1230.5
7.5°	1222.2	1233.2	1280.0	1390.1	1503.0	1588.3	1610.4	1591.1	1503.0	1381.9	1252.5
10°	1321.3	1340.6	1409.4	1607.6	1814.1	1965.5	2026.0	1943.4	1803.0	1582.8	1370.9
12.5°	1580.1	1613.1	1745.2	2034.3	2353.6	2554.5	2637.1	2535.3	2315.1	1995.7	1659.9
15°	1987.5	2037.0	2235.2	2667.4	3044.5	3223.5	3251.0	3193.2	2937.2	2584.8	2133.4
17.5°	2562.8	2634.4	2942.7	3383.1	3655.6	3719.0	3710.7	3650.1	3462.9	3220.7	2794.0
20°	3251.0	3336.3	3639.1	4002.5	4030.0	3955.7	3914.4	3878.6	3815.3	3774.0	3440.9
22.5°	3944.7	4049.3	4365.8	4456.7	4208.9	3994.2	3892.4	3919.9	4013.5	4217.2	4082.3
25°	4635.6	4734.7	5032.0	4787.0	4291.5	3933.7	3804.3	3870.4	4093.3	4533.8	4707.2
27.5°	5442.2	5516.5	5692.7	5012.7	4305.3	3884.1	3757.5	3859.3	4131.9	4732.0	5392.6
30°	6281.8	6325.8	6240.5	5073.3	4258.5	3809.8	3710.7	3859.3	4197.9	4864.1	5907.4
32.5°	6898.4	6906.6	6628.6	5078.8	4233.7	3749.2	3666.7	3842.8	4261.2	4974.2	6405.6
35°	7534.3	7493.0	7000.2	5161.4	4299.8	3771.3	3699.7	3889.6	4360.3	5103.6	6843.3
37.5°	8178.4	8104.1	7415.9	5296.3	4470.5	4010.7	3966.7	4129.1	4520.0	5282.5	7325.0
40°	8839.1	8737.2	7848.1	5500.0	4850.3	4825.6	4977.0	4957.7	4957.7	5511.0	7820.5
42.5°	9645.6	9527.2	8486.7	6075.3	5736.7	6290.0	6702.9	6446.9	5973.5	6036.8	8464.7
45°	10710.9	10609.1	9593.3	7176.4	7126.8	8398.6	8954.7	8448.2	7270.0	7250.7	9541.0
47.5°	12414.9	12395.6	11357.8	8453.7	8828.0	11082.5	12156.1	11181.6	8748.2	8536.3	11578.0
50°	14809.8	14751.9	13557.3	9951.2	10851.3	14407.9	16323.8	14699.6	10534.7	10036.5	14306.0
52.5°	17507.4	17568.0	16637.6	11586.3	13001.2	18107.5	20774.9	18729.7	12475.4	11944.1	17738.7
55°	20048.2	20395.1	20150.1	13499.4	15101.5	22192.6	25663.8	23150.6	14878.6	14440.9	21587.0
57.5°	22035.7	23012.9	24730.6	16279.7	17570.8	26971.4	31122.5	27943.1	17683.6	18495.7	26825.5
60°	22145.8	23439.6	27428.3	22096.3	20747.4	31070.2	36572.9	32625.5	22093.5	25380.3	30929.8
62.5°	20485.9	21873.3	25672.1	24738.9	24207.6	34557.9	39369.7	36038.9	26431.8	29413.1	29713.1
65°	18586.5	19987.7	23712.1	21741.2	23805.7	34409.3	38659.5	36118.7	26825.5	26671.3	27535.7
67.5°	15715.4	16973.4	20345.5	19244.4	21942.1	32749.4	35378.2	33842.2	24714.1	24945.3	25330.7
70°	11470.7	12681.9	15811.8	15866.8	19161.8	29757.1	30398.5	30186.6	22759.7	23004.7	21903.6
72.5°	8285.8	9307.0	12007.5	13012.2	15297.0	24953.6	24510.4	25328.0	19528.0	20488.7	17592.8
75°	5956.9	6722.2	8808.8	11319.3	12125.8	18531.5	17546.0	19616.0	15668.6	17642.3	13226.9
77.5°	2416.9	2686.7	3465.7	7625.1	7969.2	12467.2	10741.2	14248.2	11170.6	11591.8	6411.1
80°	99.1	110.1	143.1	3936.4	5464.2	7014.0	5747.7	7616.8	7377.3	4668.7	1514.0
82.5°	11.0	11.0	24.8	1134.1	2392.1	3870.4	2708.7	4387.9	3735.5	1979.2	688.2
85°	2.8	2.8	5.5	129.4	561.6	619.4	366.1	1346.1	1737.0	809.3	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	24.8	27.5	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°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1247.0	1233.2	1216.7	1200.2	1191.9	1169.9	1161.7	1156.2	1150.6	1153.4	1153.4
5°	1205.7	1175.4	1139.6	1103.8	1084.6	1062.6	1051.5	1046.0	1048.8	1059.8	1059.8
7.5°	1200.2	1142.4	1065.3	1018.5	996.5	980.0	969.0	963.5	966.2	980.0	985.5
10°	1291.0	1189.2	1051.5	971.7	946.9	930.4	919.4	911.2	905.7	916.7	919.4
12.5°	1486.5	1346.1	1117.6	966.2	922.2	900.1	891.9	875.4	867.1	872.6	875.4
15°	1891.1	1648.9	1249.7	988.2	900.1	875.4	861.6	847.8	834.1	831.3	834.1
17.5°	2419.7	2072.8	1450.7	1040.5	883.6	853.4	834.1	814.8	795.5	792.8	790.0
20°	3074.8	2593.1	1731.5	1123.1	869.9	834.1	806.6	779.0	754.3	746.0	746.0
22.5°	3672.2	3220.7	2092.1	1225.0	850.6	806.6	773.5	740.5	713.0	699.2	696.4
25°	4401.6	3886.9	2524.3	1343.3	823.1	770.8	735.0	701.9	674.4	657.9	652.4
27.5°	5136.6	4588.8	3014.3	1497.5	790.0	735.0	701.9	671.7	641.4	622.1	616.6
30°	5849.6	5345.8	3564.8	1690.2	765.3	699.2	671.7	641.4	613.9	583.6	575.3
32.5°	6614.8	6119.3	4181.4	1904.9	746.0	674.4	644.1	616.6	580.8	553.3	539.5
35°	7352.6	6917.6	4861.3	2114.1	726.7	652.4	619.4	591.8	553.3	523.0	503.8
37.5°	8095.8	7729.7	5571.6	2240.7	699.2	622.1	591.8	569.8	525.8	490.0	468.0
40°	8883.1	8569.3	6339.6	2188.4	674.4	589.1	572.6	547.8	498.2	457.0	429.4
42.5°	9747.5	9370.3	7121.3	1987.5	652.4	561.6	545.0	520.3	473.5	423.9	388.1
45°	10834.8	10248.5	7762.7	1684.7	663.4	534.0	501.0	495.5	451.4	388.1	344.1
47.5°	12703.9	11597.3	8261.0	1489.2	737.7	503.8	465.2	479.0	432.2	352.4	302.8
50°	15564.0	13832.5	8726.2	1475.5	850.6	490.0	432.2	468.0	412.9	316.6	267.0
52.5°	18289.2	16103.5	9023.5	1596.6	949.7	525.8	399.1	454.2	399.1	291.8	242.2
55°	20896.1	17413.8	8492.2	1684.7	1043.3	633.1	374.4	432.2	382.6	278.0	234.0
57.5°	23706.6	17997.4	6686.4	1863.6	1109.4	724.0	379.9	399.1	360.6	269.8	231.2
60°	24546.2	17251.4	4035.5	2097.6	1073.6	751.5	421.2	355.1	330.3	253.3	223.0
62.5°	23241.4	15481.4	2381.1	1910.4	1043.3	710.2	481.7	327.6	300.0	231.2	206.5
65°	21289.7	13078.3	1552.5	1613.1	1106.6	633.1	512.0	313.8	272.5	209.2	181.7
67.5°	19060.0	10534.7	1087.3	952.4	1021.3	569.8	432.2	311.1	245.0	176.2	148.6
70°	16054.0	7889.4	765.3	630.4	850.6	506.5	335.8	302.8	214.7	143.1	115.6
72.5°	12403.9	4938.4	569.8	407.4	605.6	412.9	267.0	256.0	173.4	118.4	88.1
75°	9147.4	2816.1	401.9	294.5	399.1	313.8	198.2	181.7	148.6	112.9	79.8
77.5°	4776.0	1409.4	250.5	225.7	228.5	195.4	143.1	132.1	137.6	112.9	74.3
80°	916.7	280.8	151.4	165.2	123.9	123.9	104.6	110.1	121.1	90.8	63.3
82.5°	382.6	60.6	82.6	93.6	77.1	85.3	85.3	88.1	85.3	66.1	46.8
85°	0.0	0.0	35.8	38.5	52.3	52.3	44.0	44.0	44.0	38.5	27.5
87.5°	0.0	0.0	0.0	0.0	2.8	8.3	16.5	19.3	22.0	16.5	11.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1150.6	1145.1	1153.4	1158.9	1164.4	1164.4	1158.9	1153.4	1145.1	1153.4	1145.1
5°	1062.6	1070.8	1084.6	1090.1	1095.6	1084.6	1079.1	1062.6	1048.8	1051.5	1046.0
7.5°	993.7	1002.0	1018.5	1029.5	1029.5	1024.0	1007.5	991.0	969.0	969.0	966.2
10°	930.4	941.4	960.7	974.5	980.0	974.5	958.0	935.9	916.7	916.7	908.4
12.5°	878.1	891.9	913.9	933.2	938.7	933.2	916.7	894.6	872.6	872.6	867.1
15°	834.1	850.6	875.4	897.4	905.7	897.4	878.1	850.6	828.6	831.3	823.1
17.5°	792.8	806.6	839.6	864.4	872.6	864.4	839.6	803.8	781.8	787.3	781.8
20°	746.0	762.5	795.5	823.1	831.3	823.1	795.5	757.0	735.0	735.0	737.7
22.5°	696.4	713.0	746.0	765.3	776.3	768.0	740.5	704.7	682.7	682.7	685.4
25°	652.4	660.7	685.4	704.7	707.5	699.2	677.2	649.6	633.1	641.4	644.1
27.5°	611.1	611.1	622.1	633.1	630.4	622.1	613.9	591.8	589.1	597.3	605.6
30°	567.1	553.3	547.8	539.5	536.8	534.0	542.3	542.3	547.8	558.8	567.1
32.5°	528.5	501.0	476.2	451.4	437.7	448.7	470.7	490.0	509.3	525.8	534.0
35°	484.5	440.4	399.1	366.1	344.1	360.6	396.4	432.2	465.2	487.2	501.0
37.5°	440.4	377.1	327.6	286.3	269.8	283.5	322.1	371.6	421.2	448.7	468.0
40°	393.6	313.8	256.0	223.0	206.5	220.2	258.8	308.3	374.4	410.2	434.9
42.5°	346.8	258.8	206.5	173.4	165.2	173.4	203.7	253.3	324.8	368.9	401.9
45°	300.0	214.7	165.2	140.4	132.1	140.4	165.2	206.5	278.0	327.6	366.1
47.5°	258.8	181.7	137.6	115.6	110.1	118.4	137.6	173.4	234.0	283.5	327.6
50°	225.7	159.7	118.4	99.1	93.6	101.9	118.4	145.9	198.2	242.2	289.0
52.5°	203.7	148.6	104.6	85.3	82.6	88.1	101.9	123.9	167.9	206.5	250.5
55°	198.2	148.6	96.3	77.1	74.3	79.8	90.8	107.4	145.9	178.9	217.5
57.5°	203.7	159.7	90.8	66.1	63.3	68.8	79.8	93.6	126.6	154.2	189.9
60°	203.7	162.4	79.8	52.3	49.5	55.1	66.1	82.6	112.9	134.9	165.2
62.5°	184.4	148.6	66.1	41.3	35.8	41.3	55.1	68.8	99.1	121.1	145.9
65°	159.7	126.6	55.1	30.3	24.8	30.3	44.0	57.8	85.3	104.6	132.1
67.5°	129.4	96.3	41.3	22.0	16.5	22.0	33.0	46.8	71.6	90.8	118.4
70°	96.3	68.8	33.0	19.3	16.5	19.3	30.3	44.0	63.3	82.6	110.1
72.5°	71.6	46.8	27.5	19.3	13.8	19.3	27.5	41.3	60.6	79.8	104.6
75°	60.6	38.5	24.8	16.5	13.8	16.5	24.8	38.5	55.1	74.3	99.1
77.5°	57.8	35.8	22.0	13.8	11.0	13.8	22.0	33.0	49.5	68.8	96.3
80°	49.5	30.3	19.3	11.0	8.3	11.0	19.3	27.5	38.5	52.3	74.3
82.5°	38.5	24.8	13.8	5.5	2.8	5.5	13.8	16.5	24.8	30.3	44.0
85°	24.8	13.8	5.5	0.0	0.0	0.0	5.5	11.0	11.0	13.8	22.0
87.5°	11.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640795  
 CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1161.7	1164.4	1169.9	1178.2	1197.4	1214.0	1230.5	1252.5	1263.5	1263.5
5°	1051.5	1054.3	1057.1	1068.1	1095.6	1117.6	1153.4	1197.4	1219.5	1225.0
7.5°	966.2	971.7	977.2	985.5	1013.0	1043.3	1090.1	1172.7	1214.0	1222.2
10°	916.7	924.9	935.9	952.4	977.2	1010.3	1090.1	1238.7	1307.6	1321.3
12.5°	878.1	891.9	902.9	922.2	952.4	1004.8	1164.4	1425.9	1547.0	1580.1
15°	839.6	856.1	872.6	891.9	924.9	1024.0	1307.6	1761.8	1962.7	1987.5
17.5°	801.0	820.3	842.3	864.4	905.7	1070.8	1533.3	2227.0	2507.7	2562.8
20°	757.0	781.8	812.1	839.6	886.4	1145.1	1847.1	2780.3	3132.6	3251.0
22.5°	710.2	740.5	776.3	812.1	864.4	1236.0	2227.0	3374.9	3867.6	3944.7
25°	671.7	701.9	735.0	770.8	828.6	1346.1	2686.7	4112.6	4561.3	4635.6
27.5°	635.9	666.2	696.4	729.5	792.8	1489.2	3240.0	4897.1	5365.1	5442.2
30°	597.3	633.1	663.4	696.4	759.8	1665.4	3878.6	5767.0	6210.2	6281.8
32.5°	564.3	600.1	630.4	663.4	735.0	1858.1	4550.3	6537.8	6898.4	6898.4
35°	536.8	575.3	597.3	641.4	715.7	1982.0	5186.2	7272.7	7545.3	7534.3
37.5°	506.5	553.3	569.8	600.1	690.9	1995.7	5783.5	8049.0	8250.0	8178.4
40°	476.2	525.8	550.5	567.1	663.4	1882.9	6438.7	8762.0	8932.6	8839.1
42.5°	448.7	487.2	523.0	542.3	646.9	1684.7	6964.4	9524.5	9728.2	9645.6
45°	421.2	454.2	476.2	512.0	657.9	1547.0	7415.9	10413.6	10771.5	10710.9
47.5°	393.6	421.2	434.9	490.0	732.2	1483.7	7691.2	11790.0	12464.4	12414.9
50°	363.4	396.4	396.4	484.5	842.3	1505.7	7930.7	13783.0	14826.3	14809.8
52.5°	333.1	368.9	363.4	525.8	927.7	1607.6	8203.2	15542.0	17356.0	17507.4
55°	302.8	335.8	341.3	608.4	977.2	1695.7	7148.9	16282.5	19516.9	20048.2
57.5°	269.8	289.0	355.1	671.7	960.7	1951.7	4897.1	16417.4	20896.1	22035.7
60°	234.0	250.5	401.9	657.9	908.4	1803.0	3083.1	15206.1	20700.6	22145.8
62.5°	203.7	231.2	423.9	580.8	924.9	1563.6	1965.5	12959.9	18837.0	20485.9
65°	178.9	223.0	385.4	525.8	935.9	1059.8	1326.8	10543.0	17017.5	18586.5
67.5°	159.7	247.7	316.6	468.0	803.8	746.0	911.2	8192.2	14308.8	15715.4
70°	145.9	253.3	258.8	401.9	622.1	479.0	600.1	5513.7	9863.1	11470.7
72.5°	132.1	187.2	195.4	322.1	401.9	291.8	388.1	3154.6	7190.2	8285.8
75°	126.6	126.6	134.9	209.2	223.0	212.0	250.5	1882.9	5155.9	5956.9
77.5°	118.4	96.3	85.3	134.9	121.1	151.4	148.6	836.8	2235.2	2416.9
80°	93.6	68.8	57.8	85.3	82.6	101.9	88.1	68.8	101.9	99.1
82.5°	57.8	44.0	41.3	52.3	46.8	52.3	41.3	11.0	11.0	11.0
85°	27.5	24.8	22.0	22.0	24.8	22.0	16.5	5.5	2.8	2.8
87.5°	13.8	13.8	11.0	8.3	11.0	11.0	8.3	2.8	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)