

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: P643266

Luminaire Tested: GWS-SA6E-750-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643266
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-SAGE-750-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27724.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

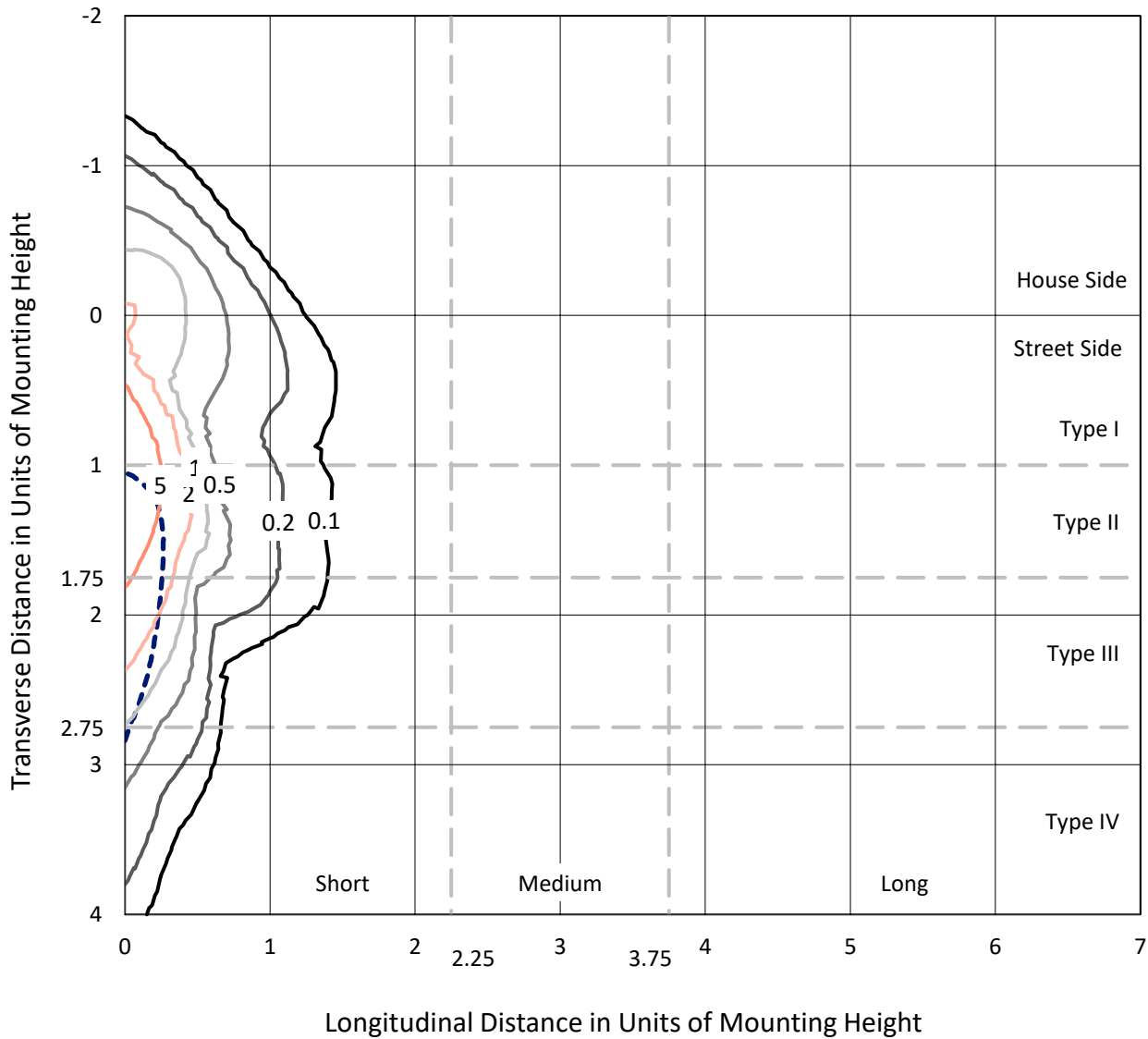
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

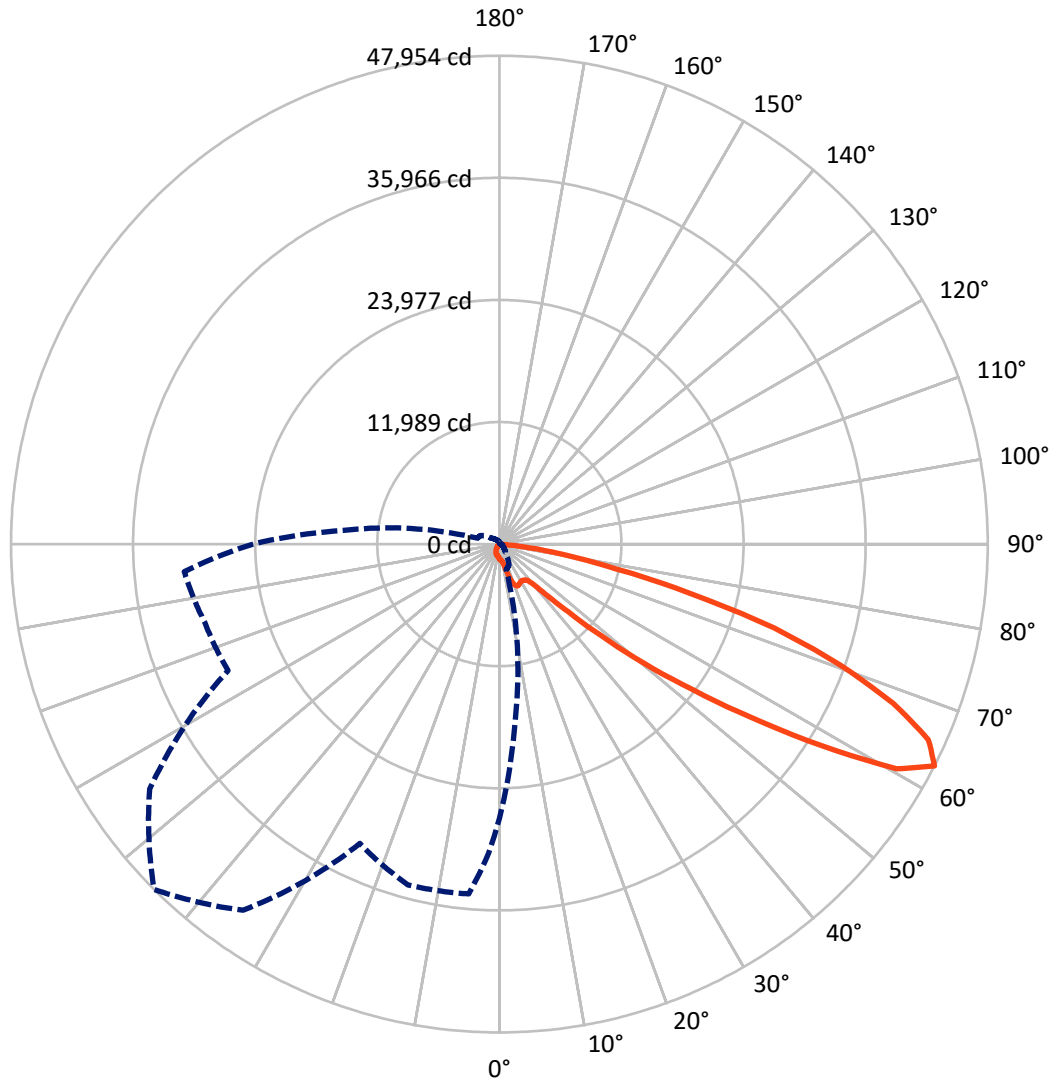
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
House Side	Lumens	3221.3	0.0	3221.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	24503.4	0.0	24503.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	27724.7	0.0	27724.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	0.4
10°-20°	425.6	1.5
20°-30°	961.4	3.5
30°-40°	1656.3	6.0
40°-50°	3124.3	11.3
50°-60°	6975.8	25.2
60°-70°	9330.0	33.7
70°-80°	4678.7	16.9
80°-90°	448.4	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°	27724.7	100.0
0°-180°	27724.7	100.0

Coefficient of Utilization

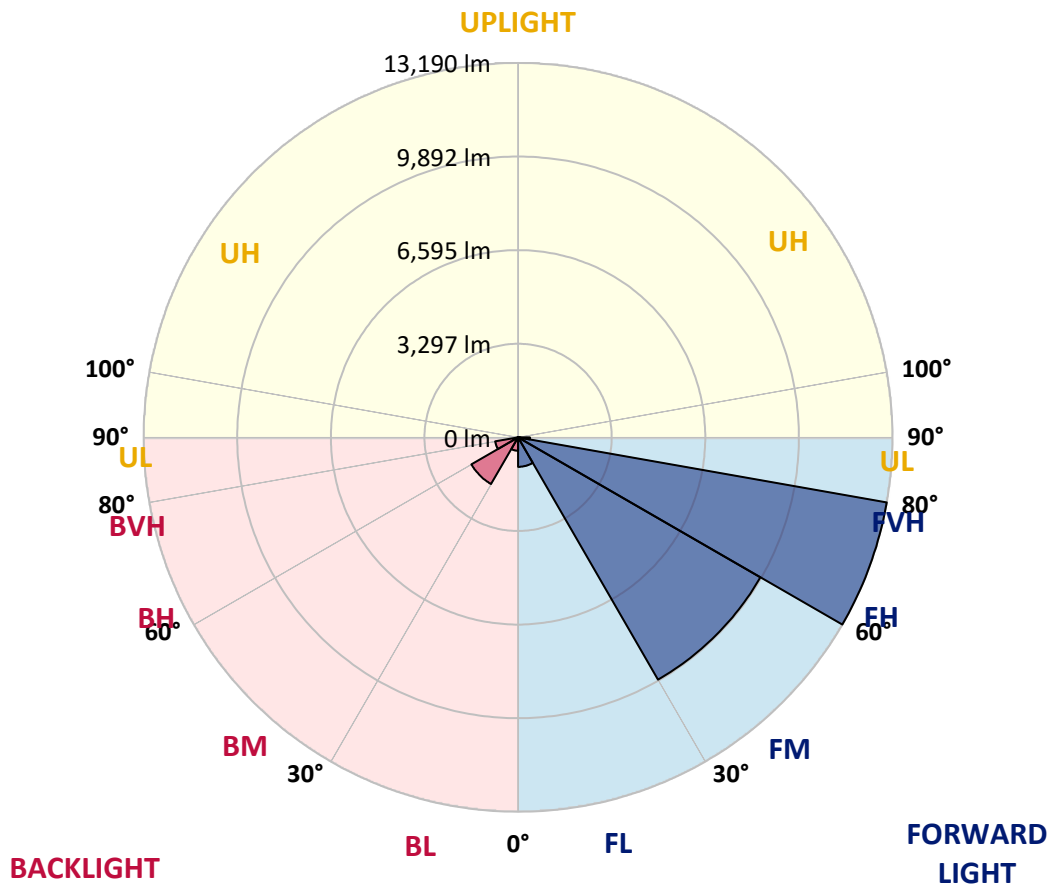


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1038.3	3.7			
FM (30°-60°)	9856.9	35.6			
FH (60°-80°)	13189.6	47.6			G5
FVH (80°-90°)	418.6	1.5			G3/500
BL (0°-30°)	472.8	1.7	B1/500		
BM (30°-60°)	1899.4	6.9	B2/2500		
BH (60°-80°)	819.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1421.4	1418.1	1411.6	1391.9	1375.5	1365.6	1345.9	1345.9	1342.6	1336.1	1322.9
5°	1375.5	1362.3	1349.2	1313.1	1273.7	1250.7	1224.5	1221.2	1221.2	1214.6	1211.3
7.5°	1303.3	1290.1	1273.7	1214.6	1178.5	1155.5	1132.5	1129.3	1119.4	1119.4	1119.4
10°	1263.9	1244.2	1217.9	1152.2	1116.1	1096.4	1080.0	1070.2	1063.6	1053.8	1050.5
12.5°	1349.2	1313.1	1257.3	1139.1	1089.9	1063.6	1043.9	1037.3	1017.7	1004.5	994.7
15°	1615.1	1526.5	1414.9	1168.7	1080.0	1040.6	1014.4	1001.2	984.8	961.8	945.4
17.5°	2051.7	1923.7	1736.6	1263.9	1070.2	1020.9	988.1	965.1	942.1	915.9	896.2
20°	2655.7	2465.3	2242.1	1437.8	1070.2	998.0	958.6	929.0	896.2	866.6	843.7
22.5°	3423.9	3233.5	2852.7	1733.3	1083.3	968.4	922.5	883.1	843.7	817.4	791.1
25°	4284.0	4014.8	3660.3	2091.1	1119.4	929.0	879.8	840.4	804.3	771.4	741.9
27.5°	5242.5	4950.4	4477.7	2599.9	1198.2	889.6	833.8	797.7	764.9	732.1	692.7
30°	6125.6	5951.6	5469.1	3210.5	1326.2	863.4	797.7	764.9	732.1	689.4	653.3
32.5°	7185.9	6877.4	6480.1	3906.5	1496.9	837.1	768.2	722.2	695.9	656.5	617.2
35°	8252.8	7990.2	7468.2	4763.3	1687.3	810.8	732.1	689.4	666.4	620.4	577.8
37.5°	9352.5	9293.5	8778.1	5712.0	1874.4	781.3	689.4	663.1	640.1	587.6	538.4
40°	10435.8	10327.5	9851.5	6795.3	1989.3	748.5	653.3	636.9	610.6	551.5	495.7
42.5°	11473.2	11391.1	10928.3	7832.6	1972.9	718.9	617.2	597.5	577.8	518.7	449.7
45°	12746.9	12612.3	12028.0	8600.8	1805.5	751.7	581.0	548.2	544.9	489.1	403.8
47.5°	15130.2	14687.0	13695.6	9191.7	1638.1	837.1	541.7	502.3	525.2	459.6	357.8
50°	18468.7	17946.8	16512.2	9651.3	1634.8	948.7	535.1	459.6	508.8	436.6	318.4
52.5°	21823.7	20904.5	19161.4	9897.5	1756.3	1030.8	594.2	416.9	489.1	413.6	288.9
55°	25037.5	23130.2	20271.0	9083.4	1851.5	1119.4	702.5	393.9	453.0	387.4	272.5
57.5°	28100.3	24919.3	20753.5	7185.9	2169.9	1155.5	768.2	403.8	400.5	354.5	259.3
60°	28520.5	24834.0	19778.5	4178.9	2393.1	1093.2	741.9	449.7	351.3	315.1	236.4
62.5°	26931.6	23182.8	17556.1	2606.5	2222.4	1070.2	659.8	512.1	318.4	279.0	206.8
65°	24518.8	20592.7	14637.8	1680.8	1684.0	1188.4	577.8	502.3	298.7	246.2	177.3
67.5°	20747.0	17234.4	11532.3	1126.0	952.0	1014.4	505.5	344.7	292.2	210.1	137.9
70°	15143.3	12267.6	7507.6	751.7	567.9	810.8	423.5	246.2	275.8	174.0	98.5
72.5°	11069.4	8243.0	4192.1	492.4	321.7	472.7	311.9	177.3	213.4	128.0	68.9
75°	7967.2	5672.6	2393.1	315.1	213.4	259.3	203.5	121.5	137.9	101.8	62.4
77.5°	3834.2	2764.1	1086.6	174.0	144.4	131.3	108.3	75.5	85.4	91.9	55.8
80°	144.4	108.3	82.1	85.4	91.9	59.1	49.2	39.4	49.2	62.4	29.5
82.5°	0.0	0.0	0.0	9.8	13.1	16.4	19.7	16.4	19.7	23.0	3.3
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°	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1332.8	1326.2	1332.8	1339.4	1345.9	1352.5	1342.6	1349.2	1355.8	1339.4	1345.9
5°	1227.7	1224.5	1244.2	1254.0	1267.1	1273.7	1267.1	1267.1	1263.9	1244.2	1244.2
7.5°	1135.8	1139.1	1155.5	1178.5	1194.9	1204.8	1198.2	1194.9	1185.1	1155.5	1155.5
10°	1066.9	1066.9	1093.2	1112.9	1135.8	1145.7	1139.1	1129.3	1119.4	1089.9	1086.6
12.5°	1011.1	1011.1	1030.8	1063.6	1089.9	1103.0	1099.7	1086.6	1070.2	1040.6	1037.3
15°	958.6	955.3	984.8	1014.4	1050.5	1066.9	1060.3	1050.5	1020.9	994.7	988.1
17.5°	906.0	902.8	929.0	968.4	1007.8	1030.8	1027.5	1004.5	978.3	945.4	938.9
20°	853.5	846.9	879.8	919.2	958.6	981.5	975.0	955.3	922.5	889.6	883.1
22.5°	801.0	797.7	820.7	853.5	889.6	909.3	906.0	889.6	856.8	827.3	827.3
25°	741.9	741.9	758.3	781.3	807.6	817.4	820.7	814.1	794.4	778.0	778.0
27.5°	692.7	682.8	689.4	695.9	709.1	725.5	725.5	732.1	735.3	728.8	732.1
30°	653.3	636.9	627.0	613.9	607.3	613.9	620.4	643.4	666.4	679.5	686.1
32.5°	607.3	587.6	561.3	525.2	502.3	495.7	515.4	558.1	600.7	630.3	646.7
35°	561.3	535.1	485.8	433.3	403.8	393.9	416.9	466.1	528.5	581.0	604.0
37.5°	515.4	479.3	410.3	348.0	315.1	308.6	331.6	384.1	456.3	528.5	558.1
40°	462.9	420.2	338.1	272.5	246.2	239.6	259.3	311.9	387.4	469.4	515.4
42.5°	410.3	357.8	272.5	216.7	190.4	190.4	216.7	256.1	325.0	413.6	469.4
45°	357.8	302.0	223.2	174.0	157.6	160.9	177.3	216.7	272.5	364.4	416.9
47.5°	308.6	259.3	183.8	144.4	131.3	134.6	154.3	187.1	233.1	315.1	371.0
50°	265.9	219.9	160.9	121.5	111.6	118.2	137.9	167.4	206.8	279.0	325.0
52.5°	239.6	197.0	147.7	105.0	98.5	105.0	124.7	151.0	187.1	246.2	292.2
55°	226.5	193.7	147.7	95.2	85.4	91.9	111.6	137.9	167.4	223.2	262.6
57.5°	223.2	200.2	157.6	85.4	72.2	78.8	98.5	124.7	154.3	203.5	236.4
60°	210.1	190.4	154.3	68.9	55.8	65.7	82.1	108.3	141.2	190.4	219.9
62.5°	183.8	167.4	134.6	55.8	42.7	49.2	68.9	95.2	128.0	174.0	206.8
65°	151.0	134.6	105.0	36.1	26.3	32.8	52.5	82.1	111.6	157.6	187.1
67.5°	111.6	95.2	72.2	23.0	13.1	23.0	42.7	68.9	101.8	141.2	170.7
70°	68.9	55.8	39.4	13.1	9.8	19.7	39.4	65.7	91.9	131.3	160.9
72.5°	39.4	26.3	16.4	6.6	9.8	19.7	39.4	65.7	88.6	124.7	151.0
75°	29.5	16.4	6.6	3.3	6.6	16.4	36.1	59.1	85.4	118.2	144.4
77.5°	19.7	9.8	3.3	0.0	3.3	13.1	32.8	55.8	78.8	111.6	137.9
80°	3.3	0.0	0.0	0.0	0.0	9.8	29.5	49.2	72.2	98.5	121.5
82.5°	0.0	0.0	0.0	0.0	0.0	3.3	23.0	42.7	62.4	82.1	98.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	13.1	32.8	49.2	62.4	68.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	32.8	39.4	46.0
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°	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1342.6	1362.3	1362.3	1375.5	1391.9	1421.4	1437.8	1460.8	1477.2	1493.6	1500.2
5°	1240.9	1244.2	1247.4	1254.0	1273.7	1306.5	1336.1	1372.2	1414.9	1447.7	1467.4
7.5°	1155.5	1155.5	1155.5	1165.4	1185.1	1208.1	1237.6	1286.8	1336.1	1375.5	1408.3
10°	1083.3	1093.2	1096.4	1112.9	1135.8	1165.4	1198.2	1240.9	1296.7	1349.2	1408.3
12.5°	1037.3	1047.2	1063.6	1080.0	1103.0	1135.8	1171.9	1227.7	1342.6	1451.0	1575.7
15°	994.7	1007.8	1027.5	1050.5	1076.7	1112.9	1152.2	1267.1	1536.3	1739.9	1936.8
17.5°	948.7	968.4	994.7	1017.7	1050.5	1089.9	1139.1	1362.3	1890.9	2229.0	2563.8
20°	889.6	915.9	945.4	981.5	1020.9	1066.9	1139.1	1559.3	2403.0	2888.8	3332.0
22.5°	833.8	860.1	896.2	942.1	988.1	1034.1	1155.5	1858.0	3062.8	3676.7	4238.0
25°	787.9	820.7	856.8	896.2	948.7	1001.2	1194.9	2278.2	3857.2	4648.4	5045.6
27.5°	745.2	784.6	820.7	853.5	899.5	958.6	1283.6	2839.6	4796.1	5600.4	5912.2
30°	702.5	748.5	784.6	817.4	863.4	925.7	1418.1	3555.2	5840.0	6621.3	6654.1
32.5°	666.4	709.1	751.7	784.6	827.3	899.5	1605.3	4392.3	6910.2	7665.2	7356.6
35°	627.0	676.2	715.6	751.7	797.7	876.5	1821.9	5295.1	7990.2	8623.8	8055.9
37.5°	587.6	643.4	692.7	718.9	764.9	853.5	1979.5	6237.2	9093.2	9559.4	8669.7
40°	551.5	613.9	669.7	695.9	718.9	824.0	2002.5	7202.3	10212.6	10481.8	9247.5
42.5°	512.1	581.0	630.3	666.4	686.1	804.3	1864.6	8016.5	11151.5	11401.0	10002.5
45°	469.4	551.5	590.9	617.2	656.5	817.4	1687.3	8646.8	12224.9	12655.0	11246.7
47.5°	426.8	518.7	551.5	571.2	623.7	896.2	1621.7	9066.9	13994.3	14887.3	13344.4
50°	387.4	489.1	525.2	522.0	617.2	998.0	1693.9	9385.4	16653.4	17703.8	16220.0
52.5°	344.7	456.3	499.0	485.8	666.4	1076.7	1838.3	9638.1	18698.5	21006.3	20083.8
55°	308.6	420.2	459.6	456.3	758.3	1135.8	1950.0	8305.3	19545.5	24075.7	24436.8
57.5°	282.3	380.8	413.6	469.4	817.4	1135.8	2255.2	5895.8	19561.9	26334.2	30214.4
60°	259.3	344.7	367.7	515.4	794.4	1076.7	2232.3	3611.0	18028.8	26179.9	33287.0
62.5°	239.6	311.9	341.4	528.5	702.5	1066.9	2015.6	2238.8	15376.4	24187.3	31058.1
65°	223.2	285.6	328.3	485.8	636.9	1142.4	1359.1	1608.5	12471.2	21915.6	28500.8
67.5°	206.8	262.6	348.0	397.2	577.8	1020.9	981.5	1142.4	9789.1	19424.0	26153.6
70°	193.7	249.5	367.7	325.0	505.5	797.7	695.9	866.6	7494.5	16206.9	22847.9
72.5°	183.8	233.1	308.6	256.1	410.3	617.2	485.8	630.3	4897.9	12651.7	18626.3
75°	174.0	213.4	226.5	206.8	305.3	403.8	367.7	423.5	2918.4	9247.5	14132.2
77.5°	170.7	200.2	183.8	167.4	206.8	239.6	279.0	285.6	1424.7	4625.4	7405.9
80°	151.0	180.6	157.6	137.9	141.2	157.6	206.8	190.4	325.0	1175.2	1976.2
82.5°	118.2	141.2	131.3	114.9	114.9	114.9	137.9	128.0	105.0	528.5	892.9
85°	82.1	98.5	98.5	91.9	88.6	88.6	85.4	82.1	29.5	32.8	49.2
87.5°	55.8	68.9	72.2	68.9	59.1	52.5	46.0	39.4	13.1	0.0	6.6
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-SA6E-750-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1523.2	1533.0	1533.0	1519.9	1510.1	1483.8	1457.5	1431.3	1424.7	1421.4
5°	1523.2	1562.6	1582.3	1579.0	1556.0	1513.3	1457.5	1398.4	1382.0	1375.5
7.5°	1500.2	1575.7	1634.8	1644.7	1602.0	1526.5	1424.7	1336.1	1313.1	1303.3
10°	1552.7	1700.5	1818.6	1835.1	1785.8	1638.1	1474.0	1322.9	1286.8	1263.9
12.5°	1835.1	2078.0	2222.4	2291.4	2196.2	2009.0	1736.6	1467.4	1385.3	1349.2
15°	2406.3	2750.9	3026.7	3026.7	2938.1	2606.5	2261.8	1825.2	1713.6	1615.1
17.5°	3138.3	3571.6	3814.6	3788.3	3653.7	3420.6	3007.0	2380.0	2153.5	2051.7
20°	3972.1	4231.5	4287.3	4270.9	4211.8	4077.2	3791.6	3118.6	2813.3	2655.7
22.5°	4694.3	4625.4	4543.3	4477.7	4461.3	4500.6	4461.3	3942.6	3702.9	3423.9
25°	5183.5	4792.8	4546.6	4428.4	4484.2	4710.7	4956.9	4763.3	4572.9	4284.0
27.5°	5449.4	4773.1	4418.6	4297.1	4392.3	4714.0	5249.1	5577.4	5380.4	5242.5
30°	5593.8	4756.7	4336.5	4218.3	4362.8	4766.5	5452.6	6339.0	6345.5	6125.6
32.5°	5800.6	4861.7	4352.9	4244.6	4438.3	4924.1	5708.7	7113.7	7304.1	7185.9
35°	6033.7	5022.6	4428.4	4329.9	4569.6	5134.2	5994.3	7895.0	8292.2	8252.8
37.5°	6253.6	5203.2	4605.7	4510.5	4769.8	5314.8	6270.0	8663.2	9214.7	9352.5
40°	6483.4	5455.9	5150.6	5242.5	5387.0	5600.4	6516.3	9329.6	10229.0	10435.8
42.5°	7025.1	6332.4	6798.6	6972.6	6992.2	6552.4	7054.6	10183.1	11227.0	11473.2
45°	8233.1	7891.7	9227.8	9474.0	9346.0	8013.2	8351.3	11414.1	12622.2	12746.9
47.5°	9759.6	9917.2	12553.2	13403.5	12635.3	9736.6	9923.7	14004.2	15176.1	15130.2
50°	11538.9	12284.0	16328.4	18334.1	16495.8	11975.5	11735.8	17188.5	18609.9	18468.7
52.5°	13643.1	15035.0	20865.1	23714.6	21974.7	14493.3	14394.8	21406.8	22273.4	21823.7
55°	16292.3	17690.7	26084.7	30066.7	27591.5	17566.0	17904.1	26298.1	26465.5	25037.5
57.5°	20244.7	21154.0	32236.6	37351.1	33454.5	21741.6	24193.8	32807.8	30805.3	28100.3
60°	27420.8	25608.7	38181.6	44802.9	39691.7	27614.5	32489.3	36665.0	32249.7	28520.5
62.5°	29918.9	29390.4	41904.3	47954.4	43887.0	32436.8	34646.1	34478.7	30378.5	26931.6
65°	26133.9	28448.3	41237.9	46290.0	43348.7	31642.4	31090.9	32065.9	28271.0	24518.8
67.5°	24141.3	26235.7	38713.4	41697.4	40364.6	28947.3	27712.9	27447.0	23734.3	20747.0
70°	22132.3	24207.0	35053.2	35424.1	34803.7	24554.9	22933.3	21150.7	17740.0	15143.3
72.5°	19716.2	20858.6	29974.8	28215.2	27512.7	19286.1	18944.7	15927.9	13298.4	11069.4
75°	17195.0	16863.5	23369.9	19364.9	19890.2	15005.4	16000.1	11696.4	9743.2	7967.2
77.5°	12507.3	12261.1	15652.1	11762.1	13025.9	9828.5	8830.6	4668.1	4444.8	3834.2
80°	6979.1	8413.7	8453.1	6591.8	8223.3	6407.9	2209.3	154.3	98.5	144.4
82.5°	3243.4	3617.6	4582.7	3056.2	4691.0	3174.4	456.3	0.0	0.0	0.0
85°	1050.5	1536.3	1286.8	449.7	1135.8	1073.5	75.5	0.0	0.0	0.0
87.5°	62.4	128.0	32.8	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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