

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: P638320

Luminaire Tested: GWS-SA4E-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638320
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-SA4E-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19427.1 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

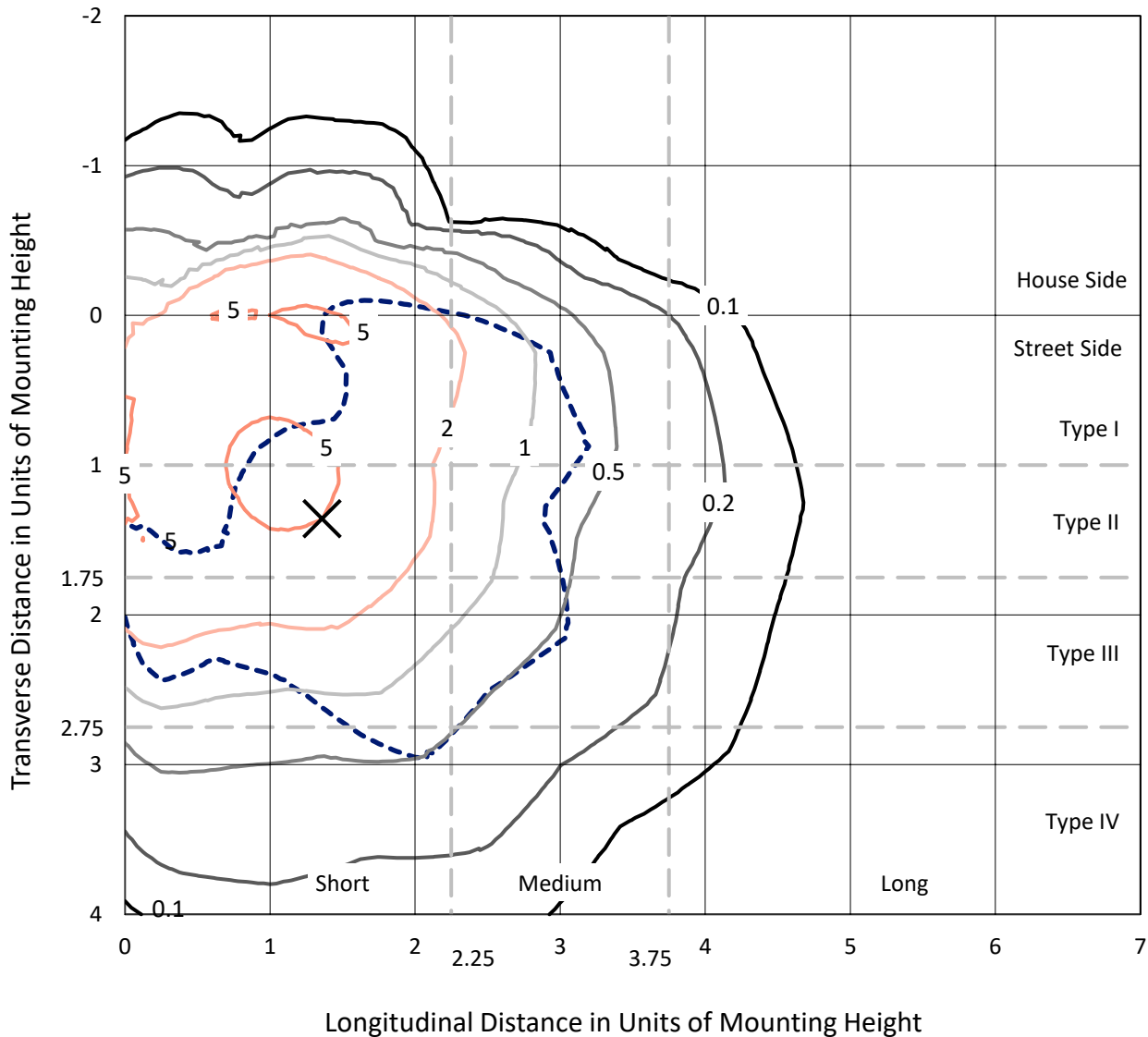
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638320
 CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

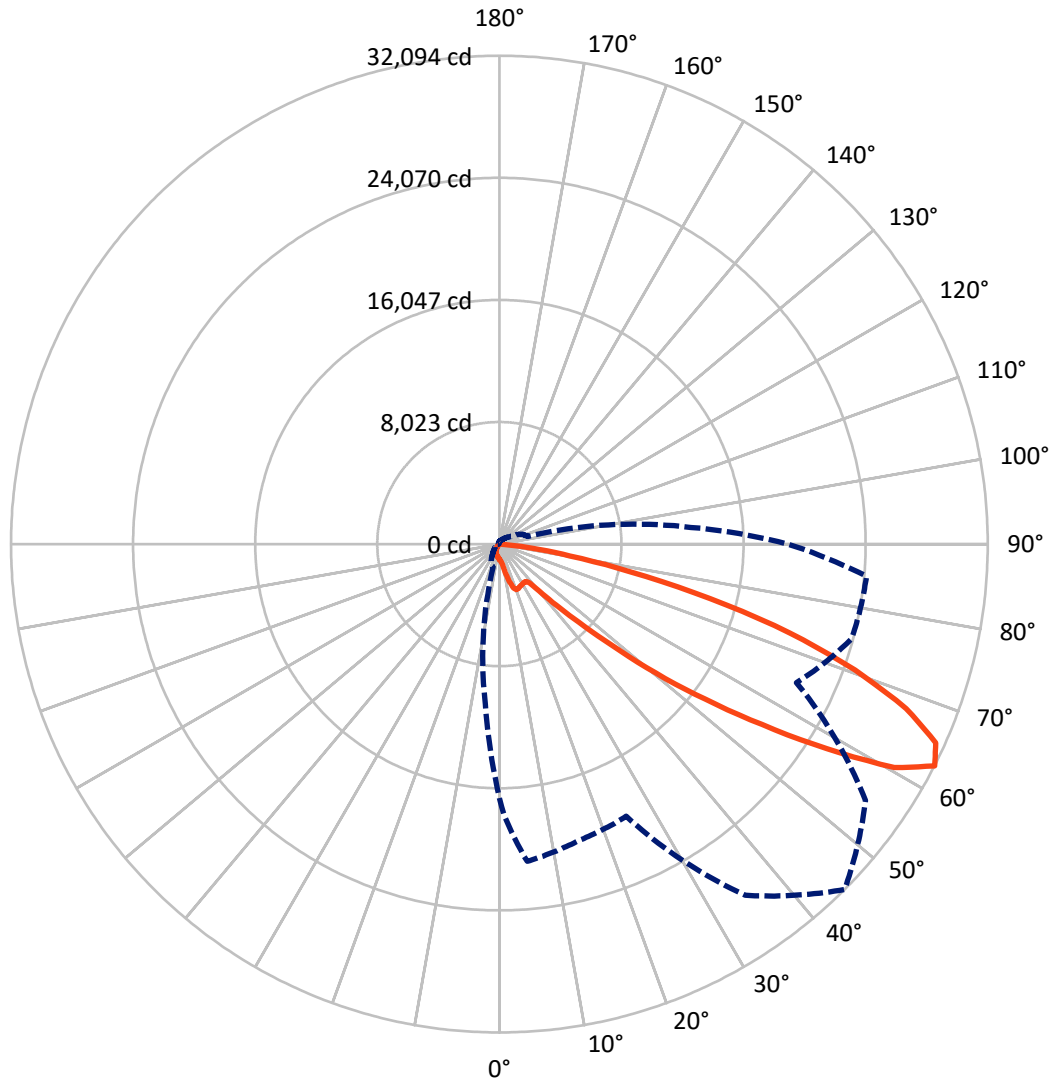
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P638320
CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P638320
 CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.3	0.0	2397.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	17029.8	0.0	17029.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	19427.1	0.0	19427.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	0.5
10°-20°	338.7	1.7
20°-30°	736.3	3.8
30°-40°	1208.5	6.2
40°-50°	2221.6	11.4
50°-60°	4771.0	24.6
60°-70°	6408.2	33.0
70°-80°	3336.8	17.2
80°-90°	316.4	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°	19427.1	100.0
0°-180°	19427.1	100.0

Coefficient of Utilization



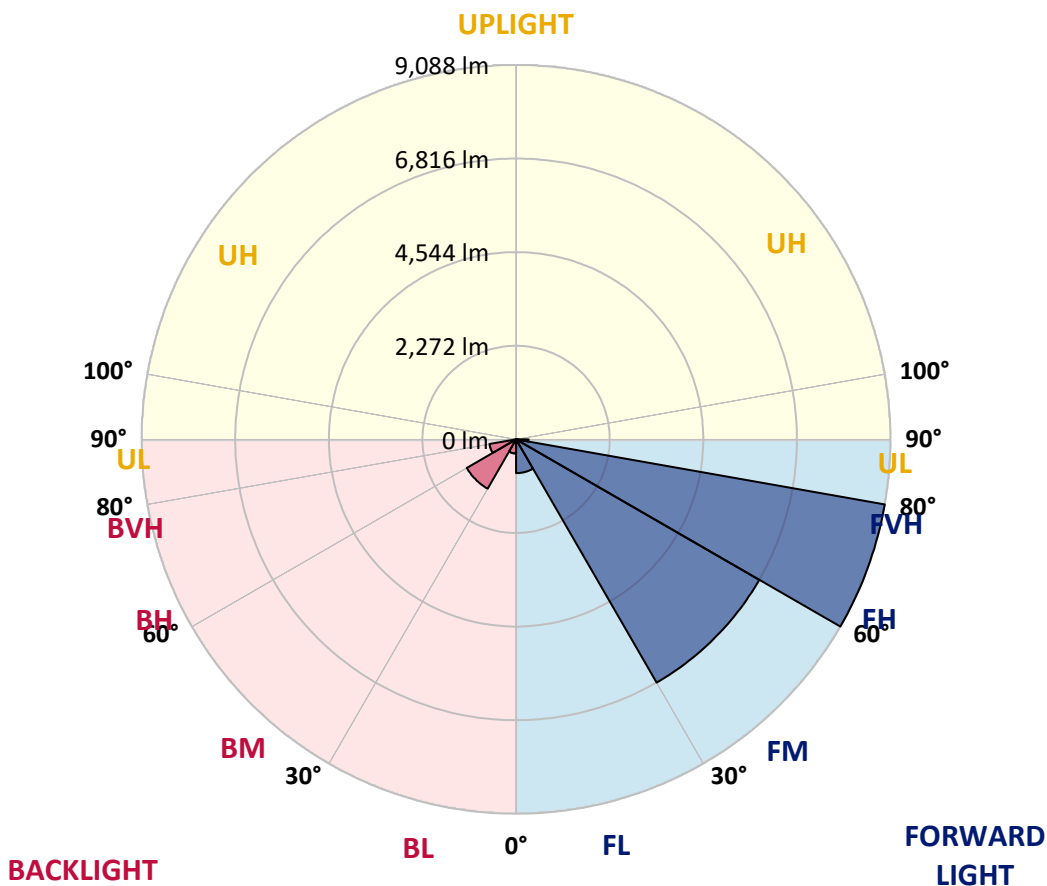
REPORT NUMBER: P638320

CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.7	4.2			
FM (30°-60°)	6818.7	35.1			
FH (60°-80°)	9088.2	46.8			G4/12000
FVH (80°-90°)	302.3	1.6			G3/500
BL (0°-30°)	343.9	1.8	B1/500		
BM (30°-60°)	1382.4	7.1	B2/2500		
BH (60°-80°)	656.9	3.4	B2/1000		G2/1000
BVH (80°-90°)	14.1	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





REPORT NUMBER: P638320

CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	1030.0	1034.5	1039.0	1054.7	1065.9	1074.9	1077.1	1070.4	1054.7	1039.0	1016.5
5°	998.6	1003.1	1018.8	1061.4	1104.1	1137.7	1148.9	1142.2	1104.1	1054.7	1003.1
7.5°	996.3	1005.3	1043.5	1133.2	1225.2	1294.8	1312.7	1297.0	1225.2	1126.5	1021.0
10°	1077.1	1092.8	1148.9	1310.5	1478.8	1602.2	1651.6	1584.3	1469.8	1290.3	1117.5
12.5°	1288.1	1315.0	1422.7	1658.3	1918.6	2082.4	2149.8	2066.7	1887.2	1626.9	1353.1
15°	1620.2	1660.6	1822.1	2174.4	2481.9	2627.7	2650.2	2603.0	2394.4	2107.1	1739.1
17.5°	2089.2	2147.5	2398.8	2757.9	2980.0	3031.7	3024.9	2975.6	2823.0	2625.5	2277.7
20°	2650.2	2719.7	2966.6	3262.8	3285.2	3224.6	3191.0	3161.8	3110.2	3076.5	2805.0
22.5°	3215.7	3300.9	3559.0	3633.0	3431.1	3256.1	3173.0	3195.5	3271.8	3437.8	3327.9
25°	3778.9	3859.7	4102.0	3902.3	3498.4	3206.7	3101.2	3155.1	3336.8	3695.9	3837.2
27.5°	4436.4	4497.0	4640.6	4086.3	3509.6	3166.3	3063.1	3146.1	3368.3	3857.4	4396.0
30°	5120.8	5156.7	5087.2	4135.7	3471.5	3105.7	3024.9	3146.1	3422.1	3965.2	4815.6
32.5°	5623.5	5630.2	5403.6	4140.2	3451.3	3056.3	2989.0	3132.6	3473.7	4054.9	5221.8
35°	6141.8	6108.2	5706.5	4207.5	3505.1	3074.3	3015.9	3170.8	3554.5	4160.4	5578.6
37.5°	6666.9	6606.4	6045.4	4317.5	3644.3	3269.5	3233.6	3366.0	3684.7	4306.2	5971.3
40°	7205.5	7122.5	6397.7	4483.5	3953.9	3933.7	4057.2	4041.5	4041.5	4492.5	6375.2
42.5°	7863.0	7766.5	6918.3	4952.5	4676.5	5127.6	5464.2	5255.5	4869.5	4921.1	6900.3
45°	8731.4	8648.4	7820.4	5850.1	5809.7	6846.5	7299.8	6886.9	5926.4	5910.7	7777.7
47.5°	10120.5	10104.8	9258.8	6891.3	7196.5	9034.4	9909.5	9115.2	7131.5	6958.7	9438.3
50°	12072.8	12025.6	11051.7	8112.1	8845.9	11745.1	13307.0	11983.0	8587.8	8181.6	11662.1
52.5°	14271.9	14321.2	13562.8	9445.0	10598.4	14761.1	16935.5	15268.2	10169.8	9736.7	14460.4
55°	16343.1	16625.8	16426.1	11004.6	12310.6	18091.2	20920.9	18872.1	12128.9	11772.1	17597.5
57.5°	17963.3	18759.9	20160.1	13271.0	14323.5	21986.8	25370.7	22778.9	14415.5	15077.5	21867.8
60°	18053.0	19107.7	22359.3	18012.6	16913.1	25328.1	29813.9	26596.0	18010.4	20689.7	25213.6
62.5°	16699.9	17830.9	20927.6	20166.9	19733.8	28171.2	32093.8	29378.5	21546.9	23977.2	24221.8
65°	15151.5	16293.7	19329.9	17723.2	19406.2	28050.1	31514.8	29443.6	21867.8	21742.2	22446.8
67.5°	12811.0	13836.5	16585.4	15687.8	17887.0	26696.9	28840.0	27587.8	20146.7	20335.2	20649.3
70°	9350.8	10338.1	12889.6	12934.4	15620.5	24257.7	24780.6	24607.8	18553.4	18753.2	17855.6
72.5°	6754.5	7587.0	9788.4	10607.4	12469.9	20341.9	19980.6	20647.1	15919.0	16702.1	14341.4
75°	4856.0	5479.9	7180.8	9227.4	9884.8	15106.6	14303.3	15990.8	12772.9	14381.8	10782.4
77.5°	1970.2	2190.1	2825.2	6215.9	6496.4	10163.1	8756.1	11615.0	9106.2	9449.5	5226.3
80°	80.8	89.8	116.7	3208.9	4454.4	5717.7	4685.5	6209.2	6013.9	3805.8	1234.2
82.5°	9.0	9.0	20.2	924.5	1950.0	3155.1	2208.1	3576.9	3045.1	1613.4	561.0
85°	2.2	2.2	4.5	105.5	457.8	504.9	298.5	1097.3	1416.0	659.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	20.2	22.4	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



REPORT NUMBER: P638320

CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	1016.5	1005.3	991.9	978.4	971.7	953.7	947.0	942.5	938.0	940.2	940.2
5°	982.9	958.2	929.0	899.8	884.1	866.2	857.2	852.7	855.0	863.9	863.9
7.5°	978.4	931.3	868.4	830.3	812.3	798.9	789.9	785.4	787.6	798.9	803.4
10°	1052.4	969.4	857.2	792.1	771.9	758.5	749.5	742.8	738.3	747.3	749.5
12.5°	1211.8	1097.3	911.1	787.6	751.7	733.8	727.1	713.6	706.9	711.3	713.6
15°	1541.6	1344.2	1018.8	805.6	733.8	713.6	702.4	691.2	679.9	677.7	679.9
17.5°	1972.5	1689.7	1182.6	848.2	720.3	695.6	679.9	664.2	648.5	646.3	644.0
20°	2506.6	2113.9	1411.5	915.6	709.1	679.9	657.5	635.1	614.9	608.1	608.1
22.5°	2993.5	2625.5	1705.4	998.6	693.4	657.5	630.6	603.6	581.2	570.0	567.7
25°	3588.2	3168.5	2057.8	1095.1	671.0	628.3	599.1	572.2	549.8	536.3	531.8
27.5°	4187.3	3740.8	2457.2	1220.7	644.0	599.1	572.2	547.5	522.9	507.1	502.7
30°	4768.5	4357.9	2906.0	1377.8	623.8	570.0	547.5	522.9	500.4	475.7	469.0
32.5°	5392.3	4988.4	3408.6	1552.9	608.1	549.8	525.1	502.7	473.5	451.0	439.8
35°	5993.7	5639.2	3962.9	1723.4	592.4	531.8	504.9	482.5	451.0	426.4	410.7
37.5°	6599.6	6301.2	4541.9	1826.6	570.0	507.1	482.5	464.5	428.6	399.4	381.5
40°	7241.4	6985.6	5167.9	1784.0	549.8	480.2	466.8	446.6	406.2	372.5	350.1
42.5°	7946.0	7638.6	5805.2	1620.2	531.8	457.8	444.3	424.1	386.0	345.6	316.4
45°	8832.4	8354.4	6328.1	1373.3	540.8	435.3	408.4	403.9	368.0	316.4	280.5
47.5°	10356.1	9454.0	6734.3	1214.0	601.4	410.7	379.2	390.5	352.3	287.2	246.8
50°	12687.6	11276.1	7113.5	1202.8	693.4	399.4	352.3	381.5	336.6	258.1	217.7
52.5°	14909.2	13127.4	7355.9	1301.5	774.2	428.6	325.4	370.3	325.4	237.9	197.5
55°	17034.2	14195.6	6922.8	1373.3	850.5	516.1	305.2	352.3	311.9	226.6	190.7
57.5°	19325.4	14671.3	5450.7	1519.2	904.3	590.2	309.7	325.4	294.0	219.9	188.5
60°	20009.8	14063.2	3289.7	1709.9	875.2	612.6	343.3	289.5	269.3	206.4	181.8
62.5°	18946.1	12620.3	1941.1	1557.3	850.5	579.0	392.7	267.0	244.6	188.5	168.3
65°	17355.1	10661.3	1265.6	1315.0	902.1	516.1	417.4	255.8	222.2	170.5	148.1
67.5°	15537.5	8587.8	886.4	776.4	832.5	464.5	352.3	253.6	199.7	143.6	121.2
70°	13087.0	6431.3	623.8	513.9	693.4	412.9	273.8	246.8	175.0	116.7	94.2
72.5°	10111.5	4025.7	464.5	332.1	493.7	336.6	217.7	208.7	141.4	96.5	71.8
75°	7456.8	2295.6	327.6	240.1	325.4	255.8	161.6	148.1	121.2	92.0	65.1
77.5°	3893.3	1148.9	204.2	184.0	186.3	159.3	116.7	107.7	112.2	92.0	60.6
80°	747.3	228.9	123.4	134.6	101.0	101.0	85.3	89.8	98.7	74.1	51.6
82.5°	311.9	49.4	67.3	76.3	62.8	69.6	69.6	71.8	69.6	53.9	38.1
85°	0.0	0.0	29.2	31.4	42.6	42.6	35.9	35.9	35.9	31.4	22.4
87.5°	0.0	0.0	0.0	0.0	2.2	6.7	13.5	15.7	18.0	13.5	9.0
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: P638320
 CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	938.0	933.5	940.2	944.7	949.2	949.2	944.7	940.2	933.5	940.2	933.5
5°	866.2	872.9	884.1	888.6	893.1	884.1	879.7	866.2	855.0	857.2	852.7
7.5°	810.1	816.8	830.3	839.3	839.3	834.8	821.3	807.8	789.9	789.9	787.6
10°	758.5	767.4	783.2	794.4	798.9	794.4	780.9	763.0	747.3	747.3	740.5
12.5°	715.8	727.1	745.0	760.7	765.2	760.7	747.3	729.3	711.3	711.3	706.9
15°	679.9	693.4	713.6	731.5	738.3	731.5	715.8	693.4	675.4	677.7	671.0
17.5°	646.3	657.5	684.4	704.6	711.3	704.6	684.4	655.2	637.3	641.8	637.3
20°	608.1	621.6	648.5	671.0	677.7	671.0	648.5	617.1	599.1	599.1	601.4
22.5°	567.7	581.2	608.1	623.8	632.8	626.1	603.6	574.5	556.5	556.5	558.8
25°	531.8	538.6	558.8	574.5	576.7	570.0	552.0	529.6	516.1	522.9	525.1
27.5°	498.2	498.2	507.1	516.1	513.9	507.1	500.4	482.5	480.2	486.9	493.7
30°	462.3	451.0	446.6	439.8	437.6	435.3	442.1	442.1	446.6	455.5	462.3
32.5°	430.8	408.4	388.2	368.0	356.8	365.8	383.7	399.4	415.1	428.6	435.3
35°	394.9	359.0	325.4	298.5	280.5	294.0	323.1	352.3	379.2	397.2	408.4
37.5°	359.0	307.4	267.0	233.4	219.9	231.1	262.5	302.9	343.3	365.8	381.5
40°	320.9	255.8	208.7	181.8	168.3	179.5	210.9	251.3	305.2	334.4	354.6
42.5°	282.7	210.9	168.3	141.4	134.6	141.4	166.1	206.4	264.8	300.7	327.6
45°	244.6	175.0	134.6	114.4	107.7	114.4	134.6	168.3	226.6	267.0	298.5
47.5°	210.9	148.1	112.2	94.2	89.8	96.5	112.2	141.4	190.7	231.1	267.0
50°	184.0	130.2	96.5	80.8	76.3	83.0	96.5	118.9	161.6	197.5	235.6
52.5°	166.1	121.2	85.3	69.6	67.3	71.8	83.0	101.0	136.9	168.3	204.2
55°	161.6	121.2	78.5	62.8	60.6	65.1	74.1	87.5	118.9	145.9	177.3
57.5°	166.1	130.2	74.1	53.9	51.6	56.1	65.1	76.3	103.2	125.7	154.8
60°	166.1	132.4	65.1	42.6	40.4	44.9	53.9	67.3	92.0	110.0	134.6
62.5°	150.3	121.2	53.9	33.7	29.2	33.7	44.9	56.1	80.8	98.7	118.9
65°	130.2	103.2	44.9	24.7	20.2	24.7	35.9	47.1	69.6	85.3	107.7
67.5°	105.5	78.5	33.7	18.0	13.5	18.0	26.9	38.1	58.3	74.1	96.5
70°	78.5	56.1	26.9	15.7	13.5	15.7	24.7	35.9	51.6	67.3	89.8
72.5°	58.3	38.1	22.4	15.7	11.2	15.7	22.4	33.7	49.4	65.1	85.3
75°	49.4	31.4	20.2	13.5	11.2	13.5	20.2	31.4	44.9	60.6	80.8
77.5°	47.1	29.2	18.0	11.2	9.0	11.2	18.0	26.9	40.4	56.1	78.5
80°	40.4	24.7	15.7	9.0	6.7	9.0	15.7	22.4	31.4	42.6	60.6
82.5°	31.4	20.2	11.2	4.5	2.2	4.5	11.2	13.5	20.2	24.7	35.9
85°	20.2	11.2	4.5	0.0	0.0	0.0	4.5	9.0	9.0	11.2	18.0
87.5°	9.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.5	6.7
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: P638320
 CATALOG NUMBER: GWS-SA4E-750-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8	1009.8
2.5°	947.0	949.2	953.7	960.4	976.1	989.6	1003.1	1021.0	1030.0	1030.0
5°	857.2	859.5	861.7	870.7	893.1	911.1	940.2	976.1	994.1	998.6
7.5°	787.6	792.1	796.6	803.4	825.8	850.5	888.6	955.9	989.6	996.3
10°	747.3	754.0	763.0	776.4	796.6	823.6	888.6	1009.8	1065.9	1077.1
12.5°	715.8	727.1	736.0	751.7	776.4	819.1	949.2	1162.4	1261.1	1288.1
15°	684.4	697.9	711.3	727.1	754.0	834.8	1065.9	1436.2	1600.0	1620.2
17.5°	653.0	668.7	686.7	704.6	738.3	872.9	1249.9	1815.4	2044.3	2089.2
20°	617.1	637.3	662.0	684.4	722.6	933.5	1505.7	2266.4	2553.7	2650.2
22.5°	579.0	603.6	632.8	662.0	704.6	1007.6	1815.4	2751.2	3152.8	3215.7
25°	547.5	572.2	599.1	628.3	675.4	1097.3	2190.1	3352.5	3718.3	3778.9
27.5°	518.4	543.0	567.7	594.7	646.3	1214.0	2641.2	3992.1	4373.6	4436.4
30°	486.9	516.1	540.8	567.7	619.3	1357.6	3161.8	4701.2	5062.5	5120.8
32.5°	460.0	489.2	513.9	540.8	599.1	1514.7	3709.3	5329.5	5623.5	5623.5
35°	437.6	469.0	486.9	522.9	583.4	1615.7	4227.7	5928.7	6150.8	6141.8
37.5°	412.9	451.0	464.5	489.2	563.2	1626.9	4714.7	6561.5	6725.3	6666.9
40°	388.2	428.6	448.8	462.3	540.8	1534.9	5248.7	7142.7	7281.8	7205.5
42.5°	365.8	397.2	426.4	442.1	527.3	1373.3	5677.3	7764.3	7930.3	7863.0
45°	343.3	370.3	388.2	417.4	536.3	1261.1	6045.4	8489.1	8780.8	8731.4
47.5°	320.9	343.3	354.6	399.4	596.9	1209.5	6269.8	9611.1	10160.9	10120.5
50°	296.2	323.1	323.1	394.9	686.7	1227.5	6465.0	11235.7	12086.2	12072.8
52.5°	271.5	300.7	296.2	428.6	756.2	1310.5	6687.1	12669.7	14148.5	14271.9
55°	246.8	273.8	278.3	495.9	796.6	1382.3	5827.7	13273.3	15910.0	16343.1
57.5°	219.9	235.6	289.5	547.5	783.2	1591.0	3992.1	13383.2	17034.2	17963.3
60°	190.7	204.2	327.6	536.3	740.5	1469.8	2513.3	12395.9	16874.9	18053.0
62.5°	166.1	188.5	345.6	473.5	754.0	1274.6	1602.2	10564.8	15355.7	16699.9
65°	145.9	181.8	314.2	428.6	763.0	863.9	1081.6	8594.5	13872.4	15151.5
67.5°	130.2	202.0	258.1	381.5	655.2	608.1	742.8	6678.2	11664.3	12811.0
70°	118.9	206.4	210.9	327.6	507.1	390.5	489.2	4494.7	8040.3	9350.8
72.5°	107.7	152.6	159.3	262.5	327.6	237.9	316.4	2571.6	5861.3	6754.5
75°	103.2	103.2	110.0	170.5	181.8	172.8	204.2	1534.9	4203.0	4856.0
77.5°	96.5	78.5	69.6	110.0	98.7	123.4	121.2	682.2	1822.1	1970.2
80°	76.3	56.1	47.1	69.6	67.3	83.0	71.8	56.1	83.0	80.8
82.5°	47.1	35.9	33.7	42.6	38.1	42.6	33.7	9.0	9.0	9.0
85°	22.4	20.2	18.0	18.0	20.2	18.0	13.5	4.5	2.2	2.2
87.5°	11.2	11.2	9.0	6.7	9.0	9.0	6.7	2.2	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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