

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: P640793

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20486.7 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

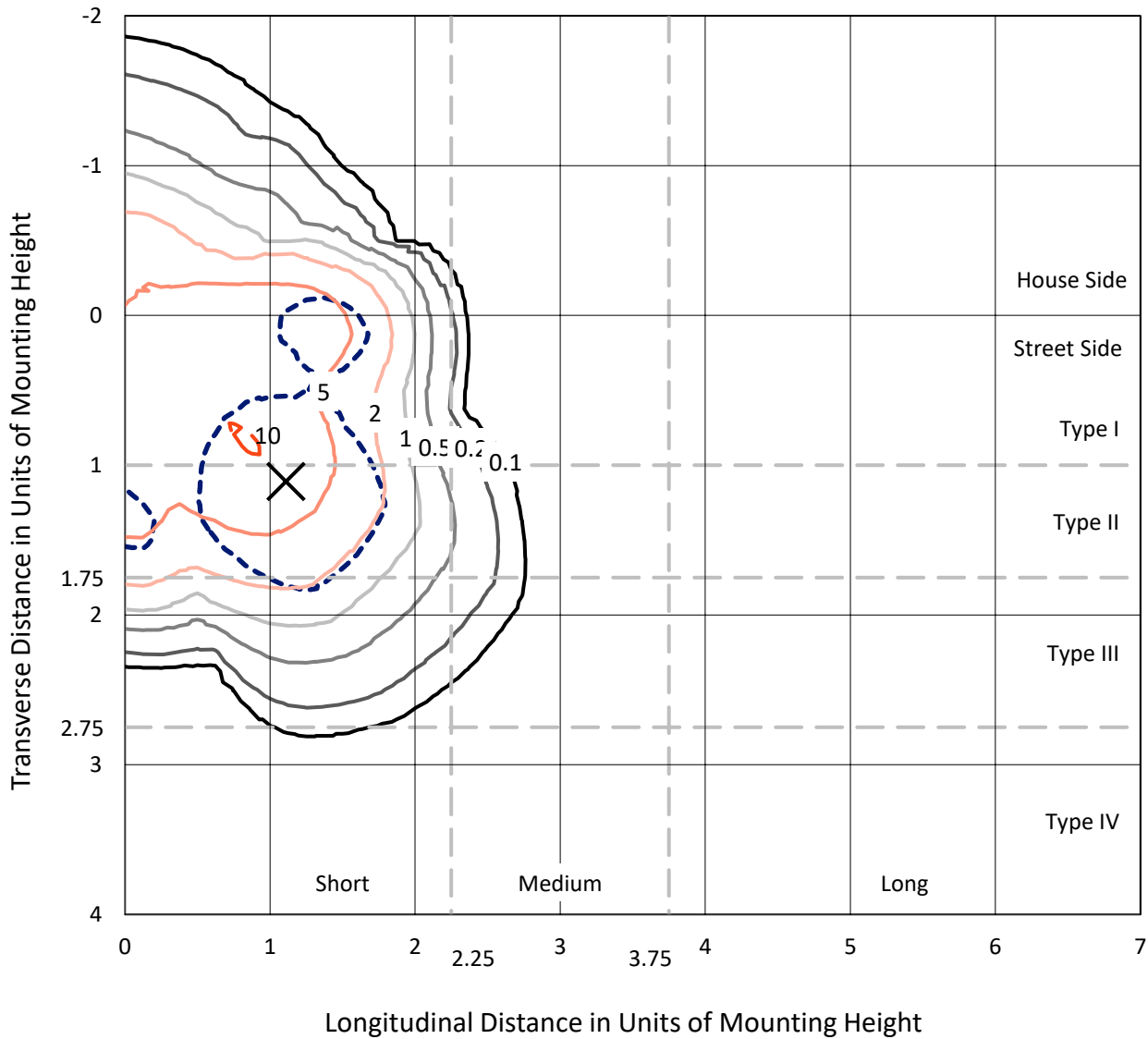
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

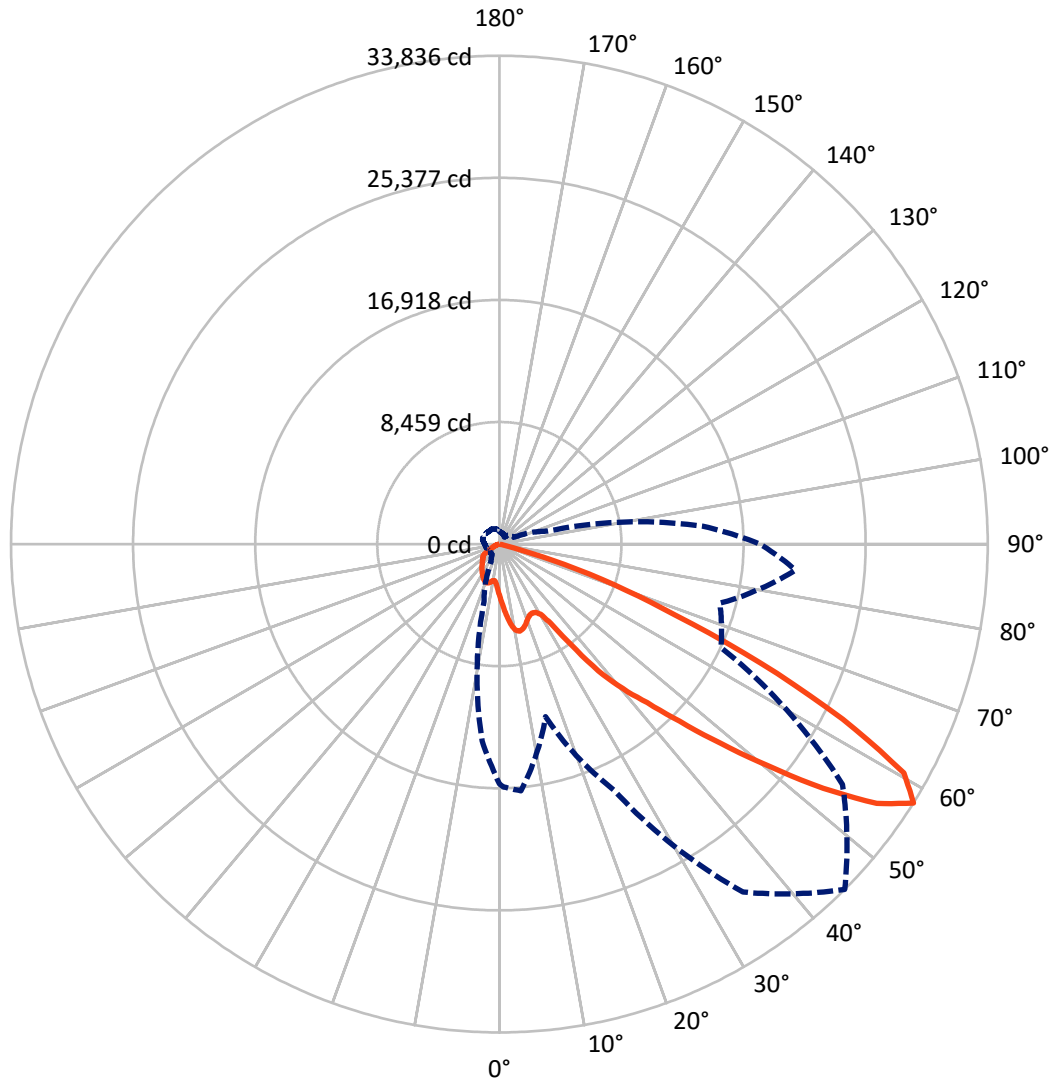
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4587.5	0.0	4587.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15899.2	0.0	15899.2
	% Fixture	77.6	0.0	77.6
Total	Lumens	20486.7	0.0	20486.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.2	1.7
10°-20°	1145.9	5.6
20°-30°	1861.5	9.1
30°-40°	2876.2	14.0
40°-50°	4612.1	22.5
50°-60°	6303.5	30.8
60°-70°	3052.9	14.9
70°-80°	279.5	1.4
80°-90°	0.8	0.0
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°	20486.7	100.0
0°-180°	20486.7	100.0

Coefficient of Utilization



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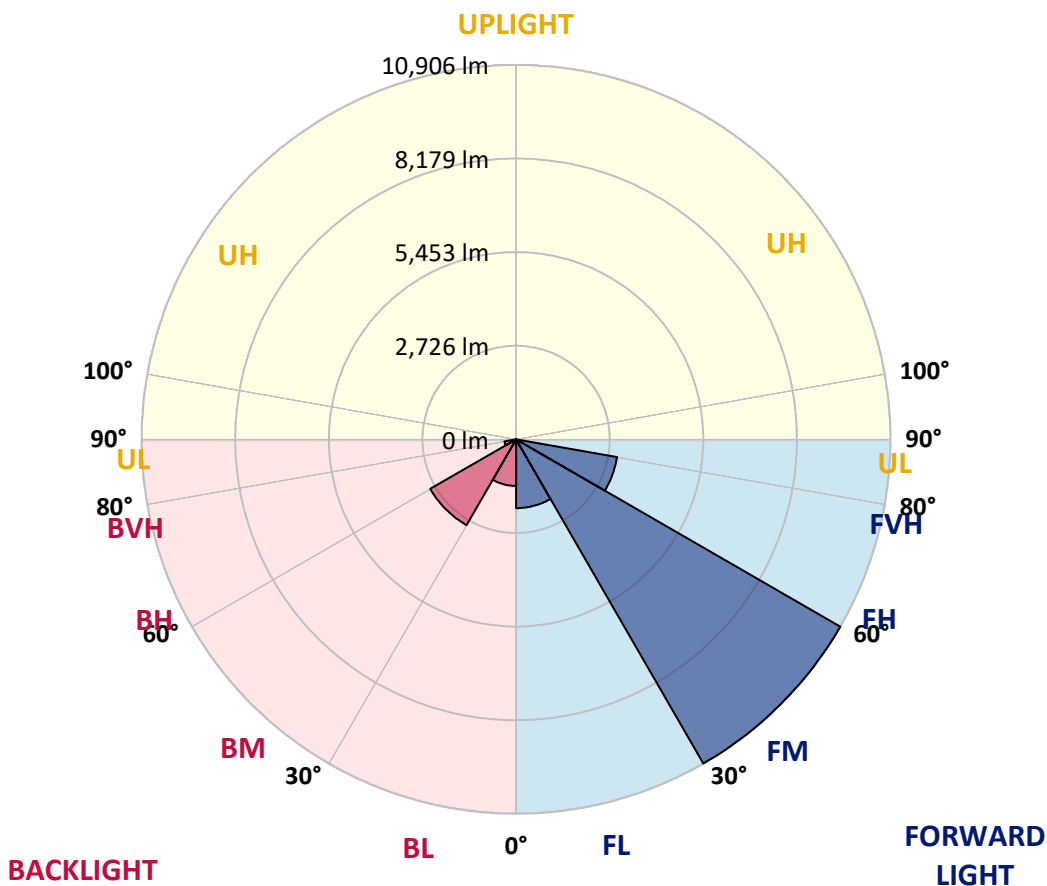
CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.2	9.8			
FM (30°-60°)	10905.5	53.2			
FH (60°-80°)	2988.6	14.6			G2/5000
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1357.4	6.6	B3/2500		
BM (30°-60°)	2886.3	14.1	B3/5000		
BH (60°-80°)	343.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8
2.5°	3900.8	3925.6	3966.9	4055.0	4129.3	4178.9	4200.9	4195.4	4165.1	4143.1	4099.0
5°	4319.3	4319.3	4399.1	4600.1	4754.2	4850.6	4900.1	4869.8	4809.3	4712.9	4564.3
7.5°	4685.4	4699.2	4834.0	5120.3	5354.3	5492.0	5571.8	5555.3	5447.9	5263.5	4966.2
10°	4971.7	4988.2	5167.1	5516.8	5792.0	5932.4	6050.8	6061.8	5943.5	5698.4	5357.1
12.5°	5249.7	5266.2	5453.4	5789.3	6031.5	6089.4	6194.0	6235.3	6205.0	6031.5	5676.4
15°	5549.8	5588.3	5748.0	5998.5	6100.4	6031.5	6100.4	6174.7	6276.5	6260.0	5940.7
17.5°	5844.3	5871.9	6034.3	6122.4	6009.5	5830.6	5863.6	5951.7	6183.0	6408.7	6202.2
20°	6116.9	6155.4	6290.3	6174.7	5833.3	5555.3	5558.0	5673.7	6026.0	6499.5	6469.3
22.5°	6403.2	6461.0	6557.3	6232.5	5670.9	5337.8	5351.6	5456.2	5902.2	6584.9	6772.1
25°	6777.6	6832.6	6895.9	6375.7	5618.6	5230.5	5282.8	5379.1	5902.2	6730.8	7146.5
27.5°	7284.1	7322.6	7325.4	6642.7	5709.5	5247.0	5357.1	5467.2	6078.3	7022.6	7647.5
30°	7920.0	7980.6	7900.7	7058.4	5993.0	5467.2	5629.6	5767.3	6458.2	7515.3	8385.3
32.5°	8693.6	8778.9	8671.5	7675.0	6584.9	6227.0	6521.6	6601.4	7063.9	8228.3	9222.1
35°	9602.0	9673.6	9558.0	8528.4	7966.8	8032.9	8566.9	8465.1	8280.6	9106.5	10199.4
37.5°	10598.6	10664.6	10441.6	9822.2	10009.4	10295.7	11149.1	10799.5	10204.9	10237.9	11259.2
40°	11512.5	11584.1	11234.5	11229.0	11614.4	12137.4	13167.0	12685.2	11875.9	11719.0	12253.0
42.5°	12459.5	12509.1	12192.5	11977.7	12853.2	13929.5	15019.7	14370.0	12982.5	12811.9	13497.3
45°	13811.2	13915.8	13351.4	12346.6	13968.1	15991.4	17511.0	16241.9	13736.8	13599.2	15402.3
47.5°	15798.7	15875.8	14725.1	12577.9	15005.9	18559.9	20624.5	18670.0	14400.3	14086.4	18006.5
50°	17442.2	17494.5	15988.7	12831.1	16109.8	21329.3	24173.0	21549.5	15146.3	14893.0	20437.3
52.5°	18653.5	18851.7	17648.7	13351.4	17560.6	24585.9	28101.3	24960.3	16310.8	16451.2	22452.4
55°	18904.0	19173.8	18782.9	13670.8	18837.9	27903.1	31729.6	28013.2	17472.5	17632.1	23129.6
57.5°	16613.6	16828.3	17153.1	12382.4	18807.6	29422.7	33835.6	29026.3	16943.9	15812.5	20594.2
60°	12445.7	12594.4	13183.5	9464.4	17296.3	28079.3	32194.8	27303.0	14816.0	12065.8	15691.4
62.5°	7380.5	7446.5	8192.5	6130.6	14356.2	24181.2	26700.1	23559.1	11708.0	8115.5	9610.3
65°	2832.7	2805.2	3375.0	3025.4	10557.3	19261.9	19859.2	17959.7	8032.9	3719.1	3664.1
67.5°	437.7	418.4	564.3	894.7	7614.4	13348.7	13103.7	12944.0	5032.3	867.2	757.0
70°	99.1	99.1	121.1	264.3	4652.4	7842.9	8393.5	8002.6	3220.9	184.4	99.1
72.5°	46.8	46.8	57.8	112.9	1684.8	3231.9	3765.9	3708.1	1046.1	60.6	35.8
75°	16.5	19.3	19.3	24.8	101.9	167.9	385.4	275.3	66.1	0.0	0.0
77.5°	5.5	5.5	5.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8
2.5°	4002.7	3983.4	3911.8	3815.5	3721.9	3639.3	3554.0	3452.1	3377.8	3292.4	3264.9
5°	4448.6	4327.5	4132.1	3928.3	3741.2	3581.5	3427.3	3262.2	3141.0	3019.9	2978.6
7.5°	4825.8	4646.8	4330.3	4024.7	3768.7	3542.9	3320.0	3094.2	2918.0	2774.9	2730.8
10°	5164.4	4957.9	4534.0	4156.8	3834.8	3573.2	3303.4	3019.9	2791.4	2620.7	2579.4
12.5°	5456.2	5216.7	4707.4	4255.9	3862.3	3562.2	3300.7	3075.0	2868.5	2673.0	2620.7
15°	5701.2	5436.9	4853.3	4322.0	3821.0	3424.6	3196.1	3160.3	3143.8	2929.1	2827.2
17.5°	5940.7	5643.4	4971.7	4352.3	3705.4	3182.3	3017.1	3179.6	3353.0	3212.6	3083.2
20°	6191.2	5852.6	5092.8	4357.8	3512.7	2909.8	2882.3	3138.3	3358.5	3314.5	3193.3
22.5°	6485.8	6114.1	5244.2	4355.0	3270.4	2678.5	2783.2	3058.4	3237.4	3234.6	3138.3
25°	6912.5	6444.5	5447.9	4371.6	3006.1	2499.6	2673.0	2923.6	3069.5	3063.9	2984.1
27.5°	7369.4	6838.1	5712.2	4412.9	2780.4	2395.0	2543.7	2739.1	2865.7	2860.2	2791.4
30°	8010.9	7292.4	5965.5	4415.6	2618.0	2339.9	2400.5	2535.4	2656.5	2642.8	2590.5
32.5°	8789.9	7804.4	6177.4	4258.7	2516.1	2287.6	2251.8	2320.7	2414.3	2395.0	2381.2
35°	9731.4	8412.8	6359.1	3914.6	2359.2	2183.0	2086.7	2100.4	2166.5	2177.5	2172.0
37.5°	10805.0	9136.8	6584.9	3460.4	2147.2	2031.6	1902.2	1891.2	1929.8	1965.6	1993.1
40°	11864.9	9951.6	6890.4	3000.6	1954.5	1838.9	1715.0	1687.5	1704.0	1767.3	1825.2
42.5°	13056.9	10895.9	7220.8	2607.0	1822.4	1626.9	1508.6	1456.3	1503.1	1604.9	1673.7
45°	14774.7	12220.0	7542.9	2293.1	1767.3	1439.8	1280.1	1274.6	1326.9	1459.0	1536.1
47.5°	17186.2	13932.3	7754.8	2048.1	1764.6	1293.9	1103.9	1136.9	1197.5	1326.9	1415.0
50°	19537.1	16076.8	7520.8	1860.9	1706.8	1197.5	971.8	1037.8	1098.4	1211.3	1302.1
52.5°	20954.9	17230.2	6609.6	1684.8	1527.8	1153.5	842.4	958.0	969.0	1070.9	1167.2
55°	20806.2	16484.2	5062.5	1412.2	1263.6	1090.1	707.5	864.4	869.9	947.0	1029.6
57.5°	18058.8	14152.5	3476.9	1145.2	949.7	900.2	583.6	729.5	781.8	828.6	889.2
60°	13458.8	10326.0	1549.9	930.5	602.9	608.4	498.3	550.6	630.4	685.5	737.8
62.5°	7931.0	5940.7	630.4	558.8	333.1	382.6	401.9	401.9	451.5	492.8	525.8
65°	2997.9	2078.4	256.0	280.8	173.4	178.9	236.7	291.8	330.3	366.1	410.2
67.5°	525.8	363.4	132.1	104.6	101.9	90.8	121.1	189.9	212.0	239.5	258.8
70°	88.1	74.3	55.1	52.3	46.8	49.6	79.8	134.9	148.7	156.9	165.2
72.5°	24.8	22.0	16.5	13.8	11.0	13.8	49.6	104.6	110.1	115.6	123.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	19.3	74.3	79.8	82.6	90.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	22.0	27.5	22.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8
2.5°	3248.4	3193.3	3163.1	3146.5	3146.5	3124.5	3099.7	3091.5	3127.3	3127.3	3187.8
5°	2926.3	2882.3	2832.7	2802.4	2755.6	2763.9	2736.4	2733.6	2769.4	2785.9	2849.2
7.5°	2703.3	2648.3	2618.0	2598.7	2573.9	2562.9	2538.1	2529.9	2549.2	2576.7	2637.3
10°	2554.7	2546.4	2543.7	2557.4	2557.4	2543.7	2521.6	2507.9	2513.4	2565.7	2634.5
12.5°	2593.2	2609.7	2615.2	2637.3	2648.3	2637.3	2620.7	2626.2	2662.0	2758.4	2860.2
15°	2761.1	2747.4	2741.9	2752.9	2761.1	2750.1	2744.6	2785.9	2909.8	3047.4	3163.1
17.5°	2940.1	2852.0	2813.4	2813.4	2818.9	2813.4	2818.9	2898.8	3099.7	3237.4	3322.7
20°	3030.9	2868.5	2807.9	2794.2	2805.2	2807.9	2827.2	2918.0	3138.3	3234.6	3253.9
22.5°	3003.4	2799.7	2730.8	2719.8	2730.8	2741.9	2761.1	2838.2	3044.7	3094.2	3086.0
25°	2865.7	2664.8	2609.7	2609.7	2634.5	2631.7	2640.0	2695.1	2865.7	2896.0	2882.3
27.5°	2692.3	2502.4	2455.6	2483.1	2505.1	2499.6	2502.4	2549.2	2675.8	2684.1	2670.3
30°	2516.1	2351.0	2306.9	2339.9	2370.2	2364.7	2367.5	2414.3	2494.1	2485.8	2466.6
32.5°	2337.2	2216.1	2183.0	2202.3	2249.1	2243.6	2254.6	2304.2	2334.4	2298.6	2276.6
35°	2172.0	2108.7	2083.9	2094.9	2130.7	2139.0	2158.3	2191.3	2191.3	2147.2	2108.7
37.5°	2017.9	2009.6	1993.1	1979.3	2012.3	2037.1	2064.7	2103.2	2048.1	1984.8	1949.0
40°	1874.7	1910.5	1888.5	1852.7	1872.0	1907.7	1962.8	1993.1	1927.0	1863.7	1803.1
42.5°	1742.6	1803.1	1794.9	1750.8	1767.3	1800.4	1863.7	1888.5	1811.4	1739.8	1682.0
45°	1615.9	1701.3	1706.8	1651.7	1668.2	1701.3	1775.6	1783.9	1684.8	1607.7	1566.4
47.5°	1505.8	1599.4	1602.2	1560.9	1566.4	1613.2	1682.0	1684.8	1571.9	1500.3	1448.0
50°	1401.2	1508.6	1516.8	1481.0	1486.6	1541.6	1599.4	1588.4	1467.3	1393.0	1346.2
52.5°	1274.6	1420.5	1439.8	1423.2	1445.3	1489.3	1525.1	1486.6	1346.2	1271.8	1230.5
55°	1136.9	1326.9	1368.2	1357.2	1381.9	1417.7	1426.0	1401.2	1225.0	1150.7	1112.2
57.5°	977.3	1092.9	1164.5	1142.4	1161.7	1197.5	1222.3	1203.0	1070.9	1013.1	980.0
60°	809.3	886.4	902.9	867.2	850.6	914.0	971.8	947.0	834.1	798.3	759.8
62.5°	591.9	680.0	691.0	644.2	624.9	693.7	743.3	718.5	594.6	556.1	525.8
65°	473.5	556.1	578.1	534.1	523.0	575.4	605.6	545.1	457.0	415.7	382.6
67.5°	311.1	377.1	435.0	432.2	410.2	426.7	404.7	355.1	291.8	269.8	247.8
70°	192.7	231.2	267.0	280.8	278.0	272.5	242.3	206.5	187.2	178.9	167.9
72.5°	148.7	187.2	214.7	223.0	225.7	217.5	192.7	159.7	140.4	129.4	121.1
75°	110.1	140.4	162.4	173.4	178.9	173.4	148.7	126.6	107.4	99.1	90.8
77.5°	38.5	46.8	57.8	63.3	60.6	57.8	52.3	52.3	41.3	38.5	33.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



REPORT NUMBER: P640793

CATALOG NUMBER: GWS-SA5E-750-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8	3600.8
2.5°	3256.6	3306.2	3397.0	3479.6	3567.7	3658.6	3757.7	3859.5	3906.3	3900.8
5°	2945.6	3052.9	3201.6	3364.0	3545.7	3741.2	3958.6	4181.6	4278.0	4319.3
7.5°	2750.1	2901.5	3097.0	3303.4	3542.9	3821.0	4148.6	4498.2	4638.6	4685.4
10°	2774.9	2951.1	3113.5	3314.5	3570.5	3931.1	4338.5	4754.2	4919.4	4971.7
12.5°	2975.9	3014.4	3058.4	3223.6	3545.7	4013.7	4512.0	5007.5	5197.4	5249.7
15°	3157.5	2978.6	2896.0	3047.4	3457.6	4071.5	4688.1	5280.0	5489.2	5549.8
17.5°	3165.8	2896.0	2711.6	2830.0	3314.5	4096.3	4861.6	5558.0	5786.5	5844.3
20°	3063.9	2805.2	2568.4	2571.2	3119.0	4090.8	5004.7	5808.6	6064.6	6116.9
22.5°	2915.3	2697.8	2452.8	2367.5	2909.8	4079.8	5161.6	6075.6	6353.6	6403.2
25°	2750.1	2560.2	2342.7	2213.3	2700.6	4090.8	5381.9	6425.2	6730.8	6777.6
27.5°	2571.2	2408.8	2257.4	2152.7	2524.4	4132.1	5646.1	6871.2	7234.5	7284.1
30°	2384.0	2262.9	2202.3	2139.0	2414.3	4143.1	5932.4	7391.5	7851.2	7920.0
32.5°	2199.5	2133.5	2136.2	2147.2	2309.7	4066.0	6194.0	7969.6	8583.5	8693.6
35°	2028.9	2009.6	2064.7	2119.7	2158.3	3867.8	6422.5	8652.3	9489.2	9602.0
37.5°	1883.0	1899.5	1968.3	2023.4	1993.1	3587.0	6725.3	9505.7	10502.2	10598.6
40°	1742.6	1783.9	1863.7	1888.5	1866.4	3259.4	7088.6	10328.8	11380.4	11512.5
42.5°	1613.2	1643.5	1756.3	1761.8	1830.7	2926.3	7438.3	11215.2	12390.7	12459.5
45°	1508.6	1503.1	1618.7	1654.5	1877.5	2557.4	7779.6	12396.2	13712.1	13811.2
47.5°	1406.7	1401.2	1428.7	1591.2	1896.7	2216.1	8118.2	14125.0	15628.1	15798.7
50°	1310.4	1318.6	1233.3	1560.9	1792.1	1954.5	8272.4	15724.4	17370.6	17442.2
52.5°	1225.0	1194.7	1046.1	1461.8	1569.1	1706.8	7834.7	16451.2	18449.8	18653.5
55°	1103.9	936.0	861.6	1186.5	1238.8	1489.3	6416.9	16030.0	18543.4	18904.0
57.5°	944.2	735.0	732.3	875.4	875.4	1381.9	4110.0	13695.5	15980.4	16613.6
60°	726.8	569.8	605.6	608.4	561.6	1007.6	2306.9	9921.4	11815.3	12445.7
62.5°	517.5	435.0	457.0	363.4	322.1	503.8	1106.7	5712.2	7292.4	7380.5
65°	346.9	294.6	239.5	201.0	198.2	214.7	457.0	2064.7	2510.6	2832.7
67.5°	228.5	178.9	126.6	126.6	143.1	143.1	173.4	341.4	479.0	437.7
70°	148.7	123.9	79.8	77.1	93.6	93.6	88.1	93.6	99.1	99.1
72.5°	110.1	93.6	46.8	41.3	52.3	55.1	49.6	46.8	46.8	46.8
75°	82.6	66.1	27.5	19.3	24.8	33.0	27.5	19.3	19.3	16.5
77.5°	33.0	24.8	11.0	8.3	13.8	19.3	16.5	8.3	5.5	5.5
80°	2.8	5.5	5.5	5.5	8.3	11.0	13.8	5.5	2.8	2.8
82.5°	0.0	2.8	2.8	2.8	5.5	8.3	11.0	5.5	2.8	2.8
85°	0.0	0.0	0.0	0.0	5.5	8.3	5.5	2.8	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.8	8.3	5.5	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)