

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: P640789

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 20591.3 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

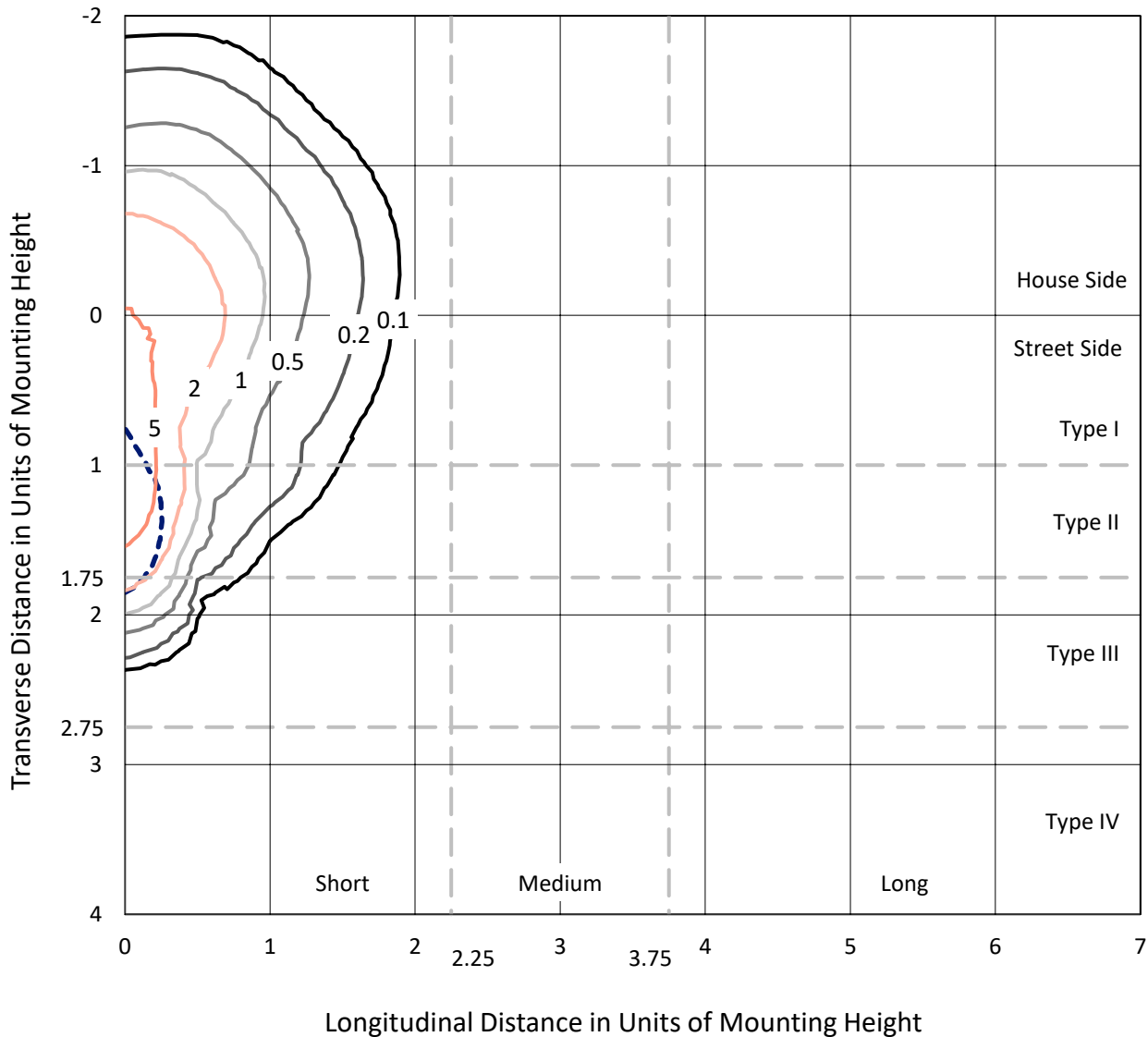
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

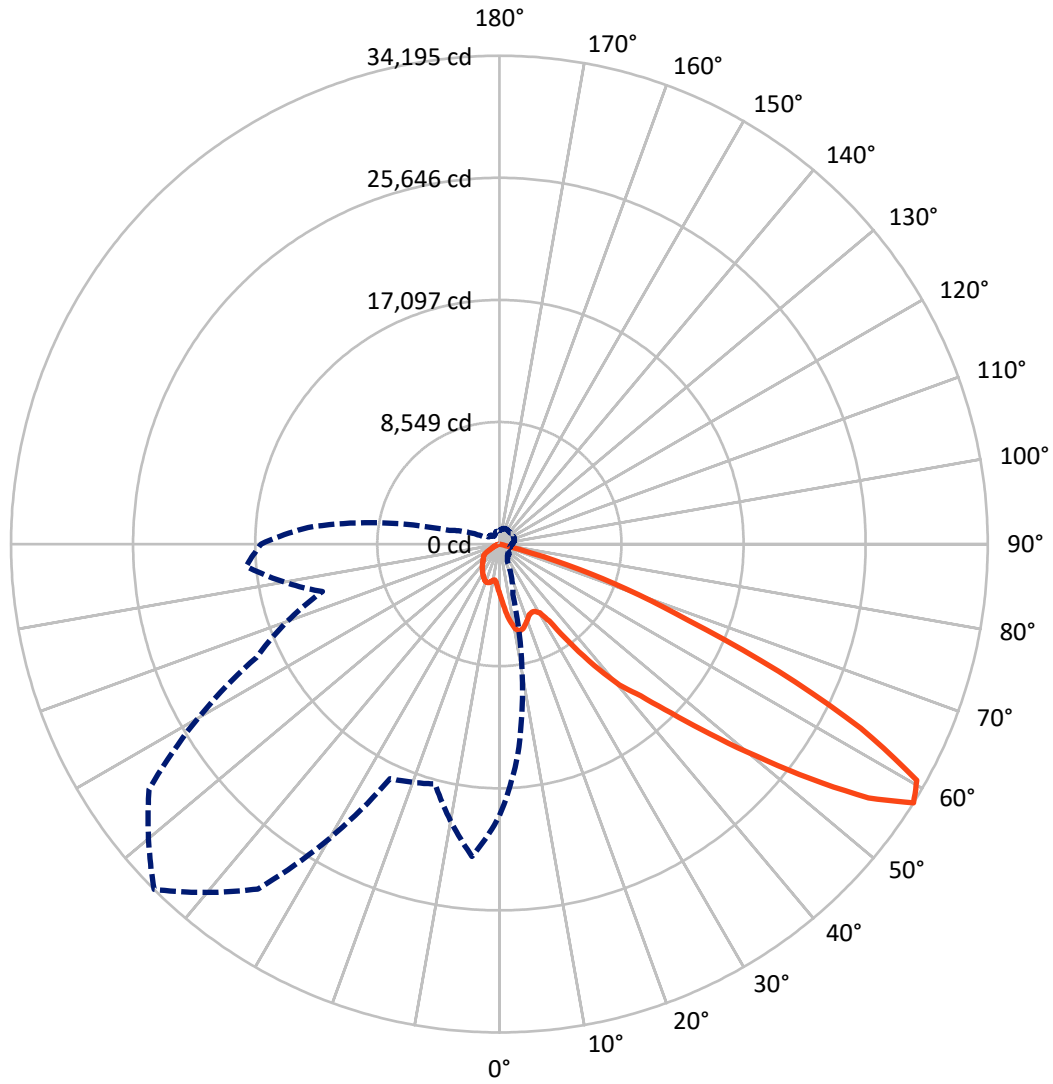
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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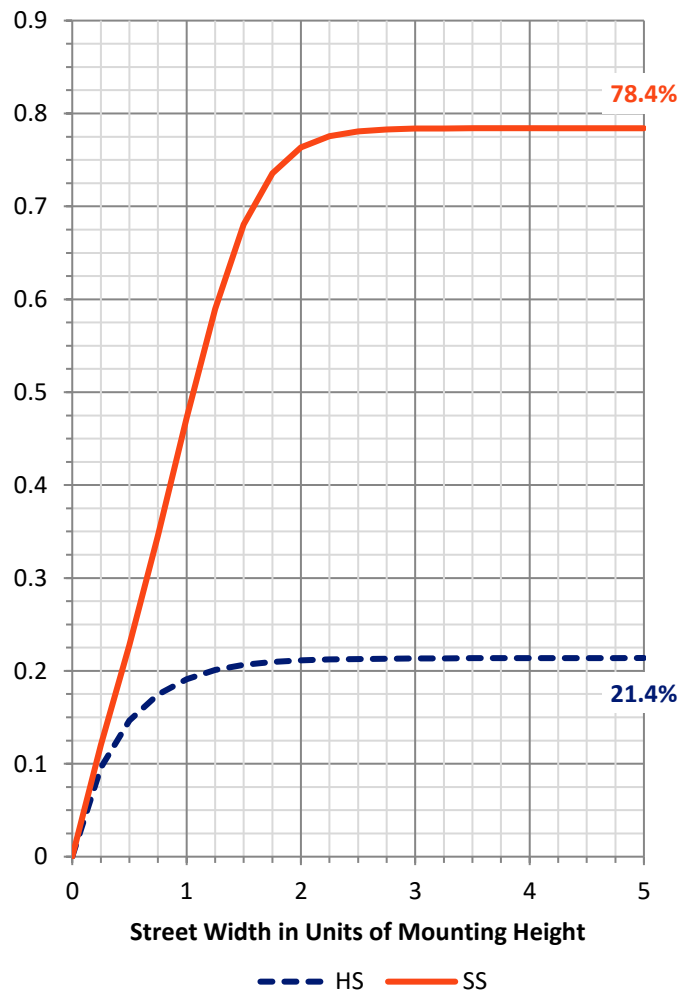
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4436.1	0.0	4436.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16155.2	0.0	16155.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	20591.3	0.0	20591.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.7
10°-20°	1137.9	5.5
20°-30°	1846.7	9.0
30°-40°	2834.2	13.8
40°-50°	4526.4	22.0
50°-60°	6337.8	30.8
60°-70°	3249.6	15.8
70°-80°	312.9	1.5
80°-90°	0.0	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°	20591.3	100.0
0°-180°	20591.3	100.0

Coefficient of Utilization



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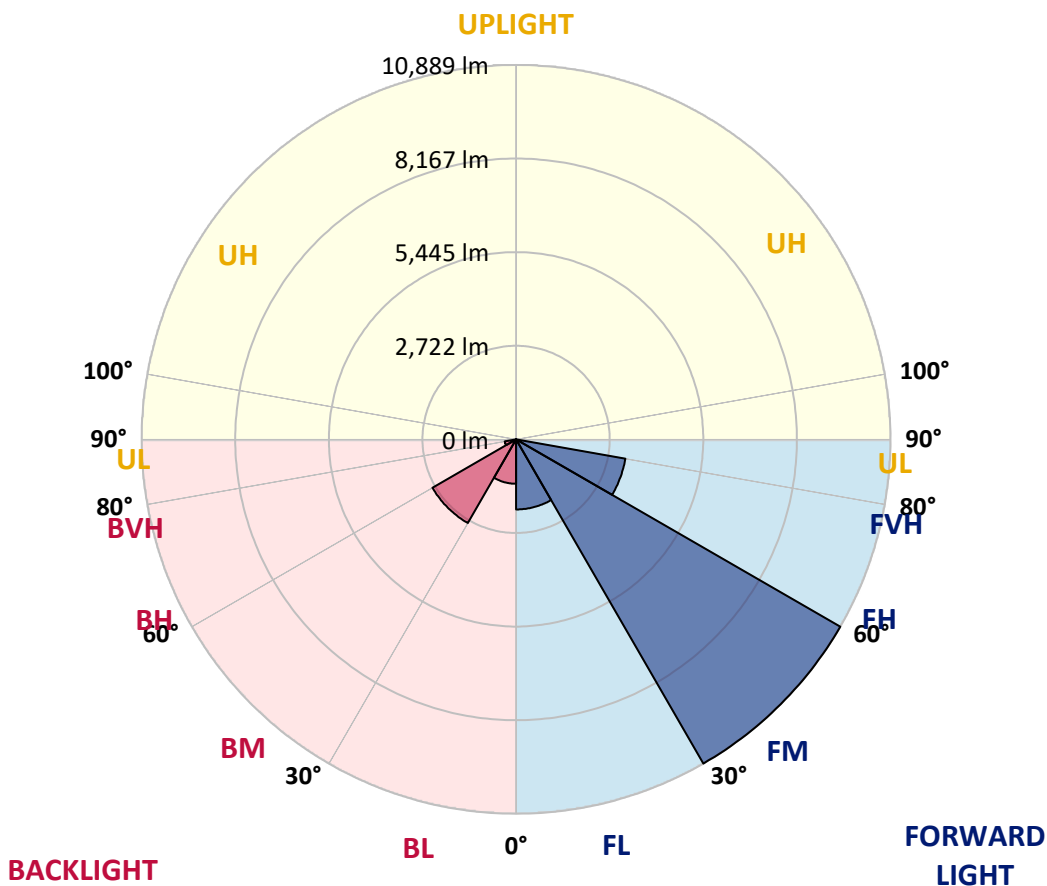
CATALOG NUMBER: GWS-SA5E-750-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.7	9.9			
FM (30°-60°)	10889.2	52.9			
FH (60°-80°)	3227.4	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1291.7	6.3	B3/2500		
BM (30°-60°)	2809.3	13.6	B3/5000		
BH (60°-80°)	335.0	1.6	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°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3886.9	3878.6	3851.1	3757.5	3699.7	3608.9	3542.8	3457.5	3363.9	3306.1	3248.3
5°	4299.8	4277.8	4203.5	3988.8	3823.6	3644.7	3501.5	3344.6	3176.7	3066.6	2964.7
7.5°	4696.2	4663.2	4564.1	4200.7	3950.2	3694.2	3490.5	3262.0	3025.3	2860.1	2733.5
10°	5084.4	5010.0	4853.1	4407.2	4068.6	3760.3	3520.8	3259.3	2981.2	2772.0	2631.6
12.5°	5403.7	5348.6	5133.9	4602.6	4167.7	3774.0	3479.5	3237.3	3050.1	2909.7	2780.3
15°	5679.0	5618.4	5414.7	4778.8	4253.0	3719.0	3306.1	3094.1	3124.4	3179.4	3069.3
17.5°	5932.2	5868.9	5648.7	4924.7	4286.1	3584.1	3063.8	2962.0	3129.9	3336.4	3295.1
20°	6193.7	6122.2	5852.4	5043.1	4275.0	3372.1	2818.8	2849.1	3085.9	3322.6	3344.6
22.5°	6499.3	6425.0	6111.1	5194.5	4266.8	3118.9	2606.9	2750.0	3003.3	3204.2	3242.8
25°	6903.9	6815.9	6471.8	5417.4	4288.8	2887.7	2455.5	2653.7	2862.9	3044.6	3066.6
27.5°	7438.0	7325.1	6887.4	5692.7	4335.6	2706.0	2389.4	2521.5	2683.9	2846.4	2865.6
30°	8134.4	7991.3	7363.7	5932.2	4313.6	2579.3	2345.4	2389.4	2485.7	2617.9	2620.6
32.5°	8949.2	8753.8	7897.7	6138.7	4123.6	2485.7	2284.8	2254.5	2276.5	2378.4	2397.7
35°	9907.2	9654.0	8486.8	6334.1	3776.8	2304.1	2174.7	2072.8	2064.6	2114.1	2160.9
37.5°	11005.6	10702.8	9230.0	6584.6	3366.6	2114.1	2012.3	1910.4	1866.4	1891.2	1962.7
40°	12018.6	11682.7	10006.3	6887.4	2948.2	1943.5	1822.3	1717.7	1665.4	1673.7	1761.8
42.5°	13207.8	12860.9	10956.0	7283.8	2601.4	1827.8	1624.1	1516.8	1448.0	1486.5	1588.3
45°	15013.6	14619.9	12340.7	7627.9	2326.1	1800.3	1450.7	1299.3	1266.3	1332.3	1453.5
47.5°	17480.1	16998.3	14242.8	7837.1	2092.1	1825.1	1329.6	1123.1	1131.4	1205.7	1326.8
50°	19927.3	19407.0	16442.3	7561.9	1899.4	1775.5	1269.0	985.5	1037.8	1103.9	1214.0
52.5°	21609.2	20932.0	17513.1	6766.3	1723.2	1588.3	1263.5	856.1	955.2	977.2	1070.8
55°	21675.3	20841.2	16965.3	5334.9	1483.7	1340.6	1205.7	748.8	864.4	872.6	952.5
57.5°	18999.6	18245.3	14826.4	3663.9	1318.6	982.7	960.7	655.2	710.2	779.0	828.6
60°	14454.8	13813.4	11088.1	1679.2	1002.0	624.9	657.9	564.3	531.3	633.1	682.7
62.5°	8852.9	8442.7	6650.7	743.2	638.6	333.1	399.2	448.7	399.2	437.7	479.0
65°	3515.3	3333.6	2524.3	316.6	261.5	167.9	181.7	261.5	280.8	308.3	346.8
67.5°	611.1	578.1	423.9	140.4	107.4	101.9	88.1	121.1	170.7	189.9	220.2
70°	79.8	77.1	68.8	57.8	55.1	49.5	38.5	77.1	115.6	121.1	140.4
72.5°	19.3	16.5	16.5	13.8	16.5	5.5	5.5	41.3	82.6	85.3	99.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	52.3	57.8	68.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3201.5	3146.4	3127.1	3099.6	3063.8	3074.8	3025.3	3008.8	3033.5	3066.6	3058.3
5°	2909.7	2849.1	2807.8	2744.5	2733.5	2708.7	2692.2	2670.2	2697.7	2736.3	2744.5
7.5°	2678.4	2626.1	2584.8	2565.6	2551.8	2540.8	2507.8	2491.3	2491.3	2507.8	2521.5
10°	2579.3	2540.8	2532.5	2538.1	2560.1	2557.3	2527.0	2505.0	2477.5	2463.7	2480.2
12.5°	2717.0	2653.7	2642.7	2645.4	2672.9	2670.2	2637.2	2609.6	2604.1	2609.6	2661.9
15°	2951.0	2854.6	2783.0	2769.3	2783.0	2777.5	2752.8	2736.3	2744.5	2824.3	2912.4
17.5°	3160.2	3011.5	2882.1	2832.6	2829.8	2821.6	2796.8	2791.3	2832.6	2981.2	3110.6
20°	3220.7	3074.8	2890.4	2827.1	2813.3	2805.1	2777.5	2785.8	2838.1	3017.0	3127.1
22.5°	3140.9	3000.5	2807.8	2744.5	2733.5	2730.7	2703.2	2714.2	2758.3	2915.2	3006.0
25°	2989.5	2871.1	2670.2	2615.1	2615.1	2609.6	2584.8	2590.4	2617.9	2755.5	2843.6
27.5°	2805.1	2692.2	2524.3	2469.2	2477.5	2485.7	2455.5	2447.2	2469.2	2598.6	2650.9
30°	2593.1	2513.3	2381.1	2331.6	2328.8	2361.9	2320.6	2309.6	2339.9	2441.7	2452.7
32.5°	2386.6	2348.1	2254.5	2216.0	2218.7	2224.2	2202.2	2202.2	2229.7	2284.8	2282.0
35°	2185.7	2160.9	2144.4	2116.9	2114.1	2103.1	2103.1	2108.6	2138.9	2158.2	2122.4
37.5°	1993.0	2017.8	2037.0	2009.5	1987.5	1987.5	1987.5	2012.3	2039.8	2031.5	1971.0
40°	1822.3	1874.6	1935.2	1904.9	1852.6	1849.9	1860.9	1902.2	1943.5	1893.9	1838.8
42.5°	1676.4	1742.5	1827.8	1811.3	1753.5	1745.3	1753.5	1805.8	1838.8	1775.5	1715.0
45°	1533.3	1615.9	1717.7	1717.7	1654.4	1646.2	1648.9	1717.7	1737.0	1662.7	1585.6
47.5°	1412.2	1503.0	1610.4	1610.4	1558.1	1541.5	1555.3	1626.9	1640.6	1536.0	1464.5
50°	1296.6	1395.7	1514.0	1505.8	1470.0	1456.2	1481.0	1558.1	1541.5	1425.9	1351.6
52.5°	1150.7	1255.3	1417.7	1425.9	1406.7	1409.4	1439.7	1489.2	1442.4	1302.1	1238.7
55°	1018.5	1125.9	1288.3	1332.3	1332.3	1329.6	1343.4	1381.9	1343.4	1175.4	1098.4
57.5°	875.4	966.2	1101.1	1112.1	1120.4	1090.1	1109.4	1161.7	1142.4	999.3	955.2
60°	718.5	795.5	872.6	880.9	845.1	781.8	817.6	878.1	891.9	784.5	735.0
62.5°	509.3	583.6	674.4	674.4	638.6	575.3	622.1	674.4	655.2	545.0	514.8
65°	379.9	448.7	517.5	547.8	517.5	473.5	509.3	547.8	517.5	426.7	382.6
67.5°	245.0	291.8	333.1	357.9	363.4	357.9	374.4	363.4	327.6	267.0	242.2
70°	148.6	173.4	195.4	217.5	234.0	242.2	250.5	225.7	189.9	156.9	148.6
72.5°	107.4	129.4	148.6	165.2	184.4	189.9	189.9	173.4	140.4	110.1	101.9
75°	74.3	93.6	110.1	121.1	137.6	143.1	143.1	129.4	104.6	79.8	71.6
77.5°	2.8	19.3	19.3	16.5	22.0	27.5	27.5	33.0	30.3	22.0	19.3
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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CATALOG NUMBER: GWS-SA5E-750-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3074.8	3173.9	3201.5	3303.3	3394.2	3485.0	3595.1	3661.2	3760.3	3829.1	3867.6
5°	2772.0	2854.6	2953.7	3105.1	3262.0	3435.5	3644.7	3826.3	4054.8	4222.7	4277.8
7.5°	2551.8	2659.2	2774.8	2964.7	3179.4	3410.7	3705.2	4002.5	4352.1	4580.6	4726.5
10°	2510.5	2620.6	2774.8	2962.0	3187.7	3452.0	3812.6	4198.0	4635.7	4913.7	5078.9
12.5°	2708.7	2827.1	2893.2	2978.5	3149.2	3443.7	3906.2	4396.2	4910.9	5213.7	5389.9
15°	3000.5	3105.1	2997.8	2890.4	3000.5	3355.6	3958.5	4561.3	5153.2	5502.8	5684.5
17.5°	3201.5	3209.7	2975.7	2747.3	2777.5	3196.0	3977.7	4726.5	5411.9	5778.1	5968.0
20°	3182.2	3116.1	2879.4	2626.1	2532.5	2989.5	3955.7	4872.4	5673.5	6056.1	6243.3
22.5°	3033.5	2956.5	2755.5	2507.8	2326.1	2744.5	3917.2	5004.5	5912.9	6347.9	6524.1
25°	2854.6	2772.0	2606.9	2389.4	2194.0	2507.8	3886.9	5186.2	6215.7	6727.8	6865.4
27.5°	2645.4	2573.8	2433.4	2276.5	2138.9	2328.8	3878.6	5425.7	6581.9	7190.2	7286.6
30°	2441.7	2375.6	2265.5	2174.7	2116.9	2224.2	3851.1	5681.7	7019.6	7721.5	7826.1
32.5°	2246.3	2180.2	2111.4	2097.6	2100.4	2185.7	3757.5	5935.0	7539.8	8492.3	8569.4
35°	2078.3	2001.3	1973.7	2006.8	2067.3	2119.6	3493.3	6144.2	8098.6	9331.9	9395.2
37.5°	1918.7	1841.6	1838.8	1918.7	1984.7	2017.8	3182.2	6350.6	8852.9	10185.2	10265.1
40°	1772.8	1695.7	1723.2	1819.6	1871.9	1888.4	2805.1	6664.4	9651.2	11085.4	11041.3
42.5°	1648.9	1569.1	1585.6	1709.5	1756.3	1800.3	2458.2	6926.0	10419.2	11938.8	11925.0
45°	1527.8	1467.2	1456.2	1591.1	1632.4	1808.6	2205.0	7126.9	11407.5	13026.1	13048.1
47.5°	1409.4	1362.6	1365.4	1423.2	1525.0	1849.9	1990.3	7259.0	12841.7	14749.3	14366.7
50°	1302.1	1266.3	1296.6	1230.5	1456.2	1797.6	1805.8	7231.5	14443.8	16401.0	15633.0
52.5°	1183.7	1175.4	1189.2	1029.5	1346.1	1585.6	1632.4	6865.4	15195.3	17529.6	17091.9
55°	1062.6	1059.8	949.7	823.1	1125.9	1266.3	1398.4	5728.5	15170.5	18129.7	18661.0
57.5°	919.4	897.4	721.2	671.7	875.4	880.9	1274.5	3752.0	13444.5	16692.8	17793.9
60°	696.5	679.9	528.5	545.0	611.1	564.3	1015.8	1869.1	10047.6	13004.1	14245.6
62.5°	481.7	459.7	393.6	421.2	393.6	322.1	622.1	924.9	6086.4	8211.5	9337.4
65°	352.4	327.6	269.8	231.2	184.4	184.4	236.7	355.1	2356.4	3490.5	4209.0
67.5°	217.5	206.5	159.7	115.6	112.9	121.1	123.9	176.2	379.9	605.6	740.5
70°	140.4	129.4	107.4	74.3	68.8	71.6	74.3	82.6	96.3	104.6	126.6
72.5°	96.3	90.8	77.1	41.3	33.0	35.8	38.5	38.5	46.8	44.0	52.3
75°	68.8	63.3	55.1	19.3	11.0	13.8	16.5	13.8	16.5	11.0	13.8
77.5°	19.3	19.3	13.8	2.8	0.0	2.8	5.5	5.5	2.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8	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: P640789

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

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8	3498.8
2.5°	3966.7	4030.1	4054.8	4019.0	4049.3	3999.8	3980.5	3906.2	3900.7	3886.9
5°	4500.8	4643.9	4729.3	4781.6	4721.0	4654.9	4555.8	4385.2	4332.9	4299.8
7.5°	5026.6	5249.5	5395.4	5464.2	5447.7	5312.8	5133.9	4847.6	4745.8	4696.2
10°	5483.5	5756.0	5932.2	6017.5	5981.8	5863.4	5607.4	5249.5	5114.6	5084.4
12.5°	5802.8	6053.3	6174.5	6248.8	6251.5	6204.7	5962.5	5601.9	5442.2	5403.7
15°	6003.8	6111.1	6113.9	6157.9	6235.0	6339.6	6226.8	5907.4	5736.8	5679.0
17.5°	6130.4	6012.0	5890.9	5901.9	6028.6	6306.6	6422.2	6177.2	5995.5	5932.2
20°	6221.3	5846.9	5621.2	5623.9	5753.3	6174.5	6557.1	6438.7	6251.5	6193.7
22.5°	6279.1	5701.0	5378.9	5370.6	5508.3	6017.5	6681.0	6749.8	6565.3	6499.3
25°	6397.4	5632.2	5233.0	5279.8	5400.9	5968.0	6848.9	7162.7	6992.0	6903.9
27.5°	6609.4	5701.0	5219.2	5326.6	5464.2	6113.9	7140.7	7713.3	7537.1	7438.0
30°	6975.5	5959.7	5431.2	5579.9	5745.0	6496.5	7630.7	8481.3	8228.0	8134.4
32.5°	7564.6	6496.5	6086.4	6405.7	6565.3	7124.2	8365.7	9342.9	9136.4	8949.2
35°	8376.7	7721.5	7674.7	8418.0	8379.4	8313.4	9268.6	10400.0	10088.9	9907.2
37.5°	9494.3	9692.5	10039.3	10777.1	10752.3	10248.6	10455.0	11399.2	11239.5	11005.6
40°	10889.9	11311.1	11900.2	12957.3	12626.9	11993.8	11911.2	12423.2	12293.9	12018.6
42.5°	11713.0	12439.8	13562.9	14512.6	14248.3	13141.7	13048.1	13791.4	13507.8	13207.8
45°	12095.7	13359.2	15561.4	16846.9	16045.9	13904.2	13868.4	15575.2	15415.5	15013.6
47.5°	12271.8	14286.9	17901.2	19847.5	18349.9	14573.1	14443.8	18162.8	17953.5	17480.1
50°	12467.3	15566.9	20720.1	23324.2	21133.0	15330.2	15423.8	20574.2	20486.1	19927.3
52.5°	12896.7	16921.3	24191.3	27299.2	24507.9	16516.6	17105.7	22848.0	22253.4	21609.2
55°	13540.9	18396.7	27802.9	31359.5	27951.6	18110.5	18925.3	24056.4	22388.3	21675.3
57.5°	12827.9	18765.6	29941.8	34194.9	29479.4	18116.0	17386.5	21961.6	19690.5	18999.6
60°	10179.7	17458.0	29118.8	33581.0	28177.3	16087.2	13312.4	17147.0	14917.2	14454.8
62.5°	6881.9	14642.0	25633.8	28400.3	24117.0	12654.5	8651.9	11151.5	9235.5	8852.9
65°	3771.3	10923.0	20711.8	21485.3	18875.7	8839.1	4451.2	4839.4	3686.0	3515.3
67.5°	1040.5	7603.1	15239.3	14253.8	13243.6	5756.0	1150.7	864.4	616.6	611.1
70°	261.5	5029.3	9130.9	9411.7	8120.7	3686.0	220.2	104.6	82.6	79.8
72.5°	110.1	2163.7	4332.9	4979.8	4156.7	1706.7	79.8	30.3	24.8	19.3
75°	13.8	173.4	368.9	558.8	382.6	184.4	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)