

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: P637379

Luminaire Tested: GWS-SA4C-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637379
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-SA4C-760-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10501.5 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

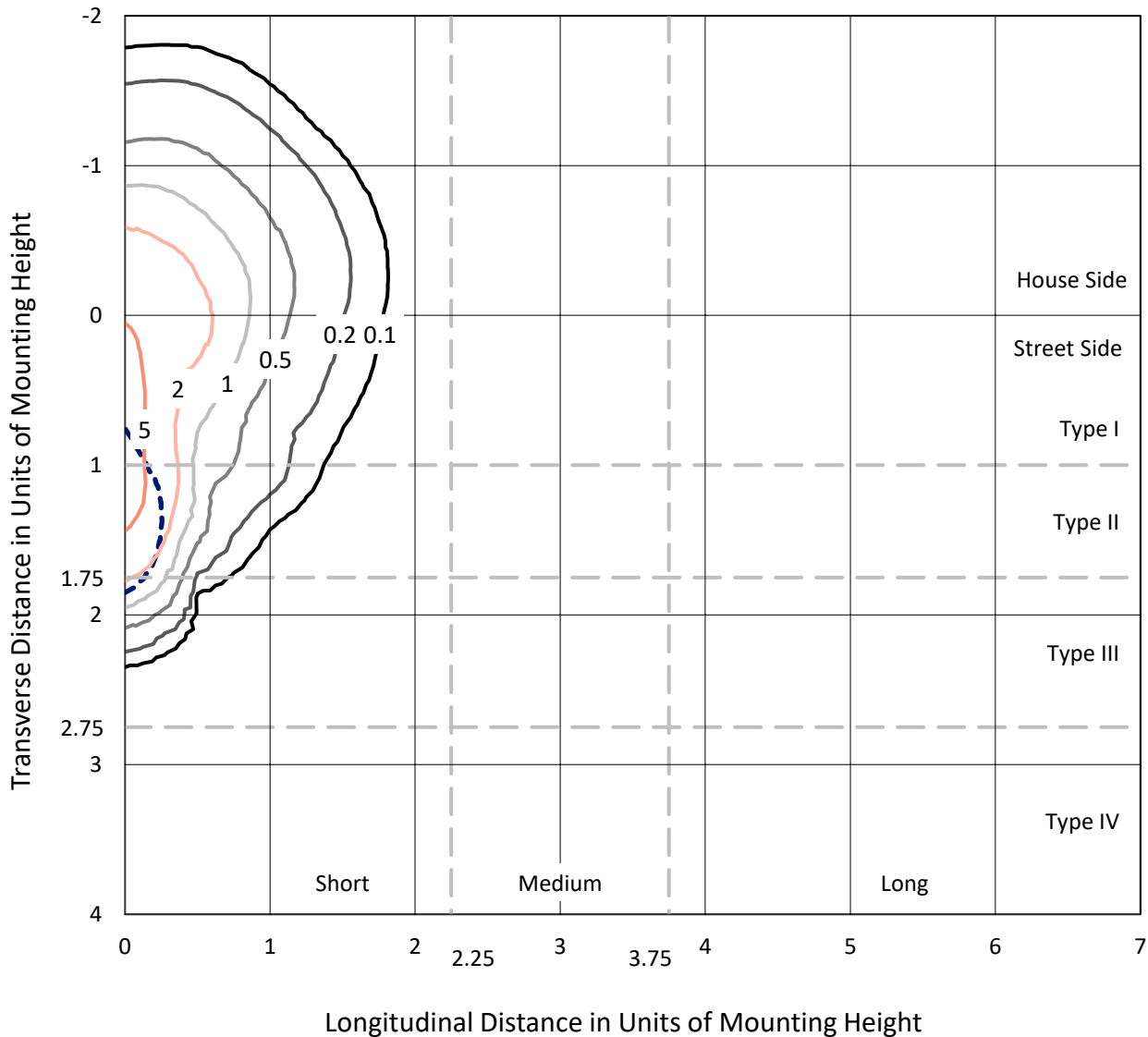
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

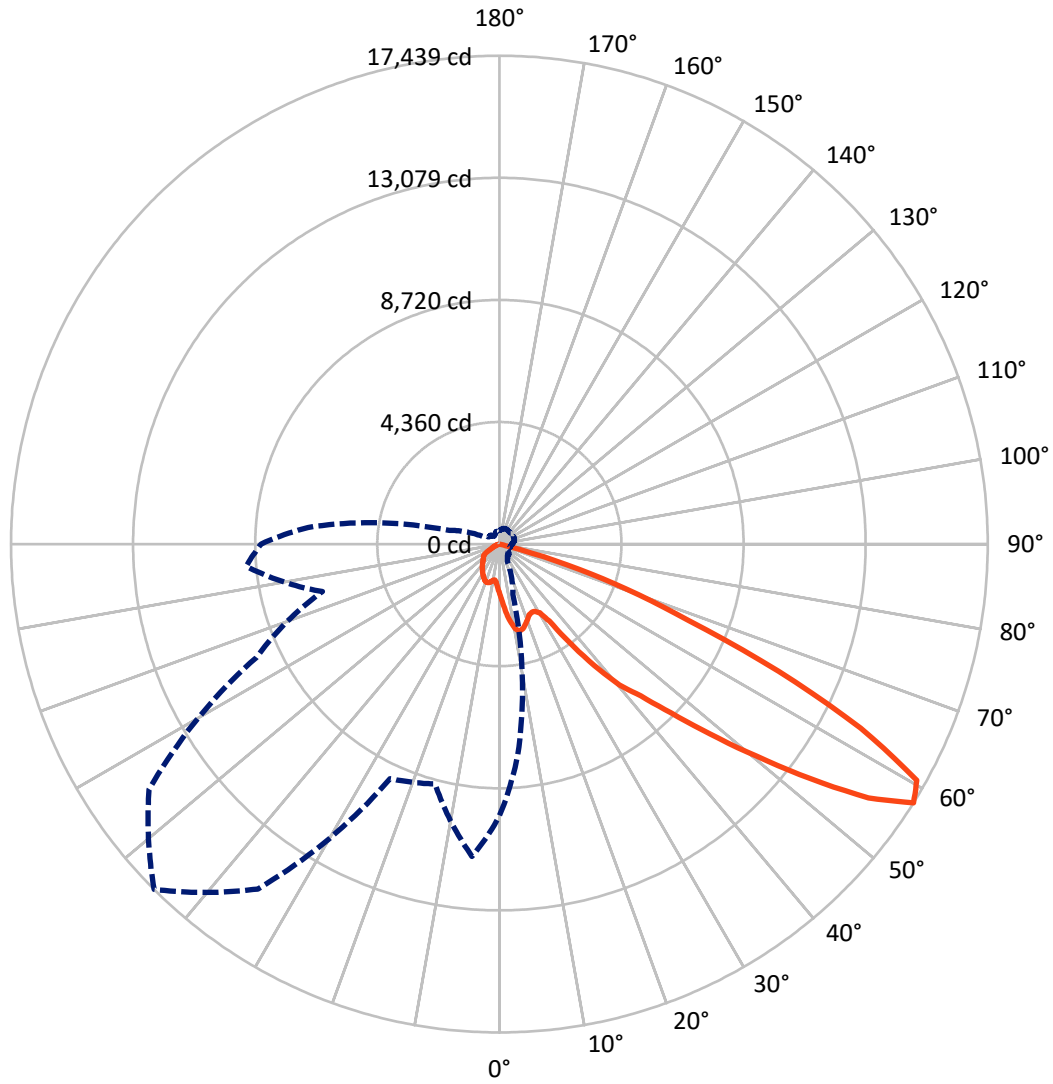
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 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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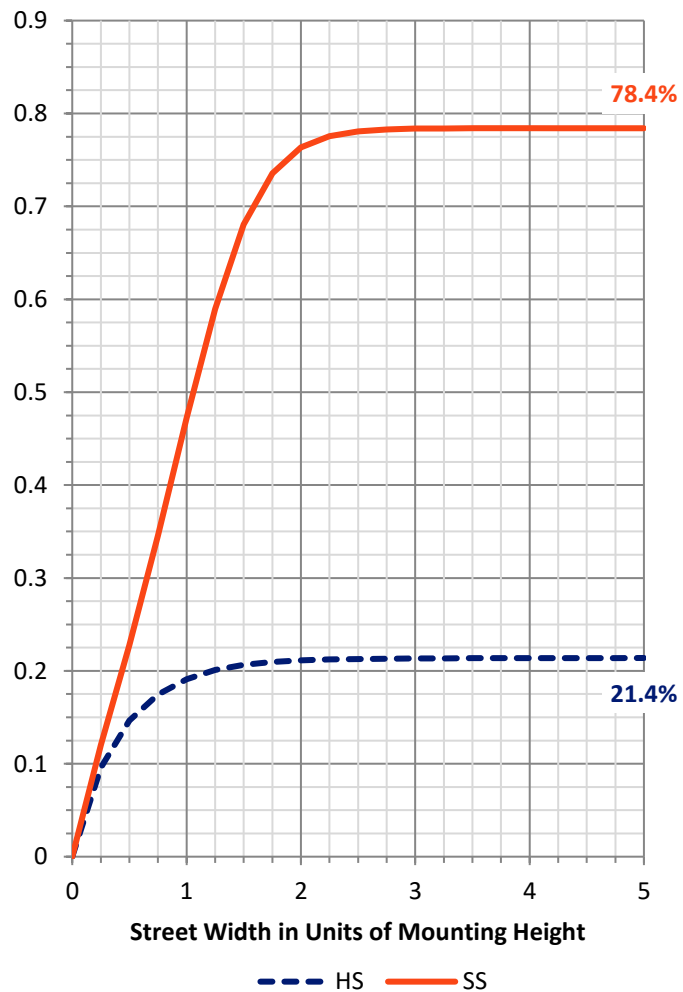
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.4	0.0	2262.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8239.1	0.0	8239.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	10501.5	0.0	10501.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	1.7
10°-20°	580.3	5.5
20°-30°	941.8	9.0
30°-40°	1445.4	13.8
40°-50°	2308.5	22.0
50°-60°	3232.3	30.8
60°-70°	1657.3	15.8
70°-80°	159.6	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°	10501.5	100.0
0°-180°	10501.5	100.0

Coefficient of Utilization



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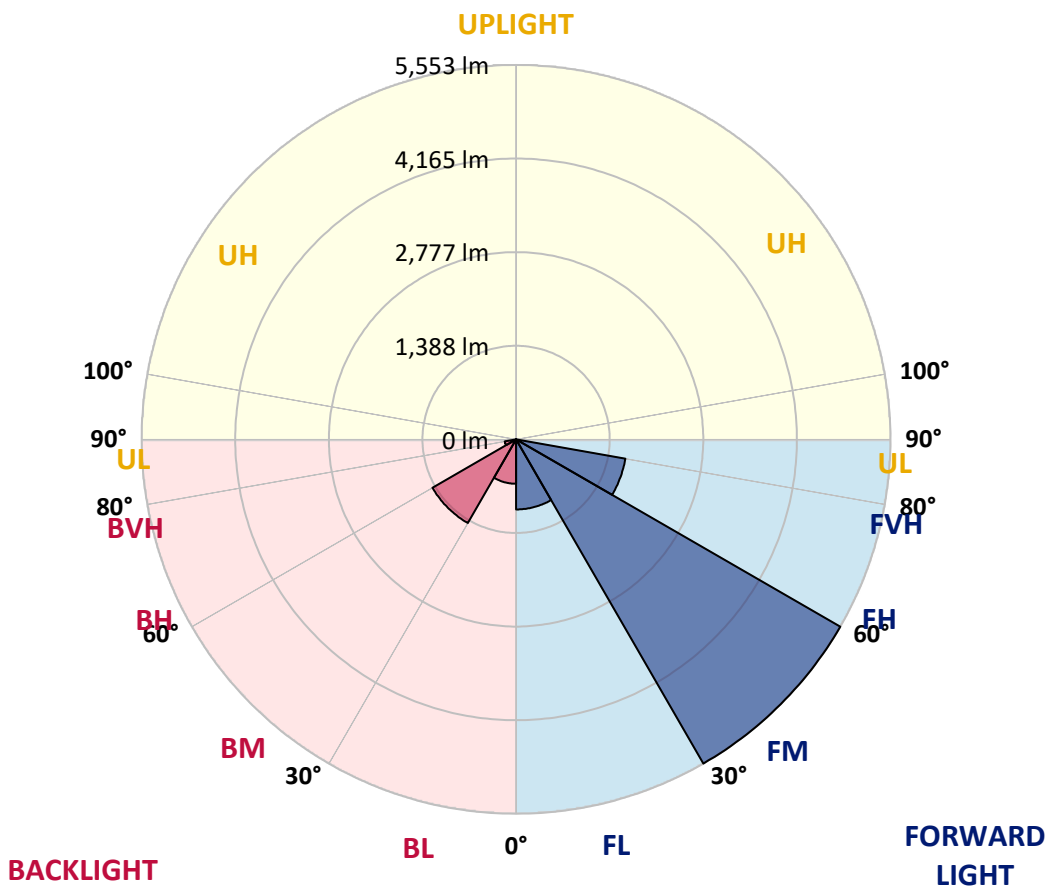
CATALOG NUMBER: GWS-SA4C-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.7	9.9			
FM (30°-60°)	5553.4	52.9			
FH (60°-80°)	1646.0	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	658.8	6.3	B2/1000		
BM (30°-60°)	1432.7	13.6	B2/2500		
BH (60°-80°)	170.9	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: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1982.3	1978.1	1964.1	1916.3	1886.8	1840.5	1806.8	1763.3	1715.6	1686.1	1656.6
5°	2192.9	2181.7	2143.8	2034.3	1950.0	1858.8	1785.8	1705.7	1620.1	1563.9	1512.0
7.5°	2395.1	2378.2	2327.7	2142.4	2014.6	1884.0	1780.1	1663.6	1542.9	1458.7	1394.1
10°	2593.0	2555.1	2475.1	2247.6	2075.0	1917.7	1795.6	1662.2	1520.4	1413.7	1342.1
12.5°	2755.9	2727.8	2618.3	2347.3	2125.5	1924.8	1774.5	1651.0	1555.5	1483.9	1417.9
15°	2896.3	2865.4	2761.5	2437.2	2169.0	1896.7	1686.1	1578.0	1593.4	1621.5	1565.4
17.5°	3025.4	2993.1	2880.8	2511.6	2185.9	1827.9	1562.5	1510.6	1596.2	1701.5	1680.5
20°	3158.8	3122.3	2984.7	2571.9	2180.3	1719.8	1437.6	1453.0	1573.8	1694.5	1705.7
22.5°	3314.6	3276.7	3116.7	2649.2	2176.0	1590.6	1329.5	1402.5	1531.7	1634.1	1653.8
25°	3521.0	3476.1	3300.6	2762.9	2187.3	1472.7	1252.3	1353.4	1460.1	1552.7	1563.9
27.5°	3793.3	3735.8	3512.6	2903.3	2211.1	1380.0	1218.6	1286.0	1368.8	1451.6	1461.5
30°	4148.5	4075.5	3755.4	3025.4	2199.9	1315.5	1196.1	1218.6	1267.7	1335.1	1336.5
32.5°	4564.1	4464.4	4027.8	3130.7	2103.0	1267.7	1165.2	1149.8	1161.0	1213.0	1222.8
35°	5052.6	4923.5	4328.2	3230.4	1926.2	1175.1	1109.1	1057.1	1052.9	1078.2	1102.1
37.5°	5612.8	5458.4	4707.3	3358.1	1717.0	1078.2	1026.3	974.3	951.8	964.5	1001.0
40°	6129.4	5958.2	5103.2	3512.6	1503.6	991.2	929.4	876.0	849.4	853.6	898.5
42.5°	6735.9	6559.0	5587.5	3714.7	1326.7	932.2	828.3	773.6	738.5	758.1	810.1
45°	7656.9	7456.1	6293.7	3890.2	1186.3	918.2	739.9	662.6	645.8	679.5	741.3
47.5°	8914.8	8669.1	7263.8	3996.9	1067.0	930.8	678.1	572.8	577.0	614.9	676.7
50°	10162.9	9897.5	8385.5	3856.5	968.7	905.5	647.2	502.6	529.3	563.0	619.1
52.5°	11020.6	10675.3	8931.6	3450.8	878.8	810.1	644.4	436.6	487.2	498.4	546.1
55°	11054.3	10628.9	8652.3	2720.8	756.7	683.7	614.9	381.9	440.8	445.0	485.8
57.5°	9689.7	9305.1	7561.4	1868.6	672.5	501.2	490.0	334.1	362.2	397.3	422.6
60°	7371.9	7044.8	5654.9	856.4	511.0	318.7	335.5	287.8	271.0	322.9	348.2
62.5°	4515.0	4305.8	3391.8	379.1	325.7	169.9	203.6	228.8	203.6	223.2	244.3
65°	1792.8	1700.1	1287.4	161.4	133.4	85.6	92.7	133.4	143.2	157.2	176.9
67.5°	311.7	294.8	216.2	71.6	54.8	51.9	44.9	61.8	87.0	96.9	112.3
70°	40.7	39.3	35.1	29.5	28.1	25.3	19.7	39.3	59.0	61.8	71.6
72.5°	9.8	8.4	8.4	7.0	8.4	2.8	2.8	21.1	42.1	43.5	50.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	26.7	29.5	35.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
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°	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1632.7	1604.7	1594.8	1580.8	1562.5	1568.2	1542.9	1534.5	1547.1	1563.9	1559.7
5°	1483.9	1453.0	1432.0	1399.7	1394.1	1381.4	1373.0	1361.8	1375.8	1395.5	1399.7
7.5°	1366.0	1339.3	1318.3	1308.4	1301.4	1295.8	1279.0	1270.5	1270.5	1279.0	1286.0
10°	1315.5	1295.8	1291.6	1294.4	1305.6	1304.2	1288.8	1277.6	1263.5	1256.5	1264.9
12.5°	1385.7	1353.4	1347.7	1349.2	1363.2	1361.8	1344.9	1330.9	1328.1	1330.9	1357.6
15°	1505.0	1455.8	1419.3	1412.3	1419.3	1416.5	1403.9	1395.5	1399.7	1440.4	1485.3
17.5°	1611.7	1535.9	1469.9	1444.6	1443.2	1439.0	1426.4	1423.6	1444.6	1520.4	1586.4
20°	1642.6	1568.2	1474.1	1441.8	1434.8	1430.6	1416.5	1420.7	1447.4	1538.7	1594.8
22.5°	1601.9	1530.3	1432.0	1399.7	1394.1	1392.7	1378.6	1384.2	1406.7	1486.7	1533.1
25°	1524.6	1464.3	1361.8	1333.7	1333.7	1330.9	1318.3	1321.1	1335.1	1405.3	1450.2
27.5°	1430.6	1373.0	1287.4	1259.3	1263.5	1267.7	1252.3	1248.1	1259.3	1325.3	1352.0
30°	1322.5	1281.8	1214.4	1189.1	1187.7	1204.5	1183.5	1177.9	1193.3	1245.3	1250.9
32.5°	1217.2	1197.5	1149.8	1130.1	1131.5	1134.4	1123.1	1123.1	1137.2	1165.2	1163.8
35°	1114.7	1102.1	1093.6	1079.6	1078.2	1072.6	1072.6	1075.4	1090.8	1100.7	1082.4
37.5°	1016.4	1029.1	1038.9	1024.8	1013.6	1013.6	1013.6	1026.3	1040.3	1036.1	1005.2
40°	929.4	956.1	986.9	971.5	944.8	943.4	949.0	970.1	991.2	965.9	937.8
42.5°	855.0	888.7	932.2	923.8	894.3	890.1	894.3	921.0	937.8	905.5	874.6
45°	782.0	824.1	876.0	876.0	843.7	839.5	840.9	876.0	885.9	848.0	808.6
47.5°	720.2	766.5	821.3	821.3	794.6	786.2	793.2	829.7	836.7	783.4	746.9
50°	661.2	711.8	772.1	767.9	749.7	742.7	755.3	794.6	786.2	727.2	689.3
52.5°	586.8	640.2	723.0	727.2	717.4	718.8	734.2	759.5	735.6	664.0	631.8
55°	519.4	574.2	657.0	679.5	679.5	678.1	685.1	704.8	685.1	599.5	560.2
57.5°	446.4	492.8	561.6	567.2	571.4	555.9	565.8	592.4	582.6	509.6	487.2
60°	366.4	405.7	445.0	449.2	431.0	398.7	417.0	447.8	454.9	400.1	374.8
62.5°	259.7	297.6	344.0	344.0	325.7	293.4	317.3	344.0	334.1	278.0	262.5
65°	193.7	228.8	263.9	279.4	263.9	241.5	259.7	279.4	263.9	217.6	195.1
67.5°	124.9	148.8	169.9	182.5	185.3	182.5	190.9	185.3	167.1	136.2	123.5
70°	75.8	88.4	99.7	110.9	119.3	123.5	127.8	115.1	96.9	80.0	75.8
72.5°	54.8	66.0	75.8	84.2	94.1	96.9	96.9	88.4	71.6	56.2	51.9
75°	37.9	47.7	56.2	61.8	70.2	73.0	73.0	66.0	53.3	40.7	36.5
77.5°	1.4	9.8	9.8	8.4	11.2	14.0	14.0	16.8	15.4	11.2	9.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1568.2	1618.7	1632.7	1684.7	1731.0	1777.3	1833.5	1867.2	1917.7	1952.8	1972.5
5°	1413.7	1455.8	1506.4	1583.6	1663.6	1752.1	1858.8	1951.4	2067.9	2153.6	2181.7
7.5°	1301.4	1356.2	1415.1	1512.0	1621.5	1739.4	1889.7	2041.3	2219.6	2336.1	2410.5
10°	1280.4	1336.5	1415.1	1510.6	1625.7	1760.5	1944.4	2141.0	2364.2	2506.0	2590.2
12.5°	1381.4	1441.8	1475.5	1519.0	1606.1	1756.3	1992.1	2242.0	2504.6	2659.0	2748.8
15°	1530.3	1583.6	1528.9	1474.1	1530.3	1711.4	2018.8	2326.3	2628.1	2806.4	2899.1
17.5°	1632.7	1637.0	1517.6	1401.1	1416.5	1629.9	2028.6	2410.5	2760.1	2946.8	3043.7
20°	1622.9	1589.2	1468.5	1339.3	1291.6	1524.6	2017.4	2484.9	2893.4	3088.6	3184.1
22.5°	1547.1	1507.8	1405.3	1279.0	1186.3	1399.7	1997.8	2552.3	3015.6	3237.4	3327.2
25°	1455.8	1413.7	1329.5	1218.6	1118.9	1279.0	1982.3	2645.0	3170.0	3431.1	3501.3
27.5°	1349.2	1312.6	1241.1	1161.0	1090.8	1187.7	1978.1	2767.1	3356.7	3667.0	3716.1
30°	1245.3	1211.6	1155.4	1109.1	1079.6	1134.4	1964.1	2897.7	3580.0	3937.9	3991.3
32.5°	1145.6	1111.9	1076.8	1069.8	1071.2	1114.7	1916.3	3026.8	3845.3	4331.0	4370.3
35°	1059.9	1020.6	1006.6	1023.4	1054.3	1081.0	1781.6	3133.5	4130.3	4759.2	4791.5
37.5°	978.5	939.2	937.8	978.5	1012.2	1029.1	1622.9	3238.8	4515.0	5194.4	5235.2
40°	904.1	864.8	878.8	928.0	954.7	963.1	1430.6	3398.8	4922.1	5653.5	5631.1
42.5°	840.9	800.2	808.6	871.8	895.7	918.2	1253.7	3532.2	5313.8	6088.7	6081.7
45°	779.2	748.3	742.7	811.5	832.5	922.4	1124.5	3634.7	5817.8	6643.3	6654.5
47.5°	718.8	694.9	696.3	725.8	777.8	943.4	1015.0	3702.1	6549.2	7522.1	7327.0
50°	664.0	645.8	661.2	627.5	742.7	916.7	921.0	3688.1	7366.3	8364.5	7972.8
52.5°	603.7	599.5	606.5	525.1	686.5	808.6	832.5	3501.3	7749.5	8940.1	8716.8
55°	541.9	540.5	484.3	419.8	574.2	645.8	713.2	2921.5	7736.9	9246.1	9517.1
57.5°	468.9	457.7	367.8	342.6	446.4	449.2	650.0	1913.5	6856.7	8513.3	9074.8
60°	355.2	346.8	269.5	278.0	311.7	287.8	518.0	953.2	5124.2	6632.0	7265.2
62.5°	245.7	234.5	200.8	214.8	200.8	164.3	317.3	471.7	3104.0	4187.8	4762.0
65°	179.7	167.1	137.6	117.9	94.1	94.1	120.7	181.1	1201.7	1780.1	2146.6
67.5°	110.9	105.3	81.4	59.0	57.6	61.8	63.2	89.8	193.7	308.9	377.6
70°	71.6	66.0	54.8	37.9	35.1	36.5	37.9	42.1	49.1	53.3	64.6
72.5°	49.1	46.3	39.3	21.1	16.8	18.3	19.7	19.7	23.9	22.5	26.7
75°	35.1	32.3	28.1	9.8	5.6	7.0	8.4	7.0	8.4	5.6	7.0
77.5°	9.8	9.8	7.0	1.4	0.0	1.4	2.8	2.8	1.4	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	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: P637379

CATALOG NUMBER: GWS-SA4C-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	2023.0	2055.3	2067.9	2049.7	2065.1	2039.9	2030.0	1992.1	1989.3	1982.3
5°	2295.4	2368.4	2411.9	2438.6	2407.7	2374.0	2323.5	2236.4	2209.7	2192.9
7.5°	2563.5	2677.2	2751.6	2786.7	2778.3	2709.5	2618.3	2472.3	2420.3	2395.1
10°	2796.6	2935.6	3025.4	3068.9	3050.7	2990.3	2859.7	2677.2	2608.5	2593.0
12.5°	2959.4	3087.2	3149.0	3186.9	3188.3	3164.4	3040.9	2856.9	2775.5	2755.9
15°	3061.9	3116.7	3118.1	3140.5	3179.8	3233.2	3175.6	3012.8	2925.7	2896.3
17.5°	3126.5	3066.1	3004.4	3010.0	3074.5	3216.3	3275.3	3150.4	3057.7	3025.4
20°	3172.8	2981.9	2866.8	2868.2	2934.2	3149.0	3344.1	3283.7	3188.3	3158.8
22.5°	3202.3	2907.5	2743.2	2739.0	2809.2	3068.9	3407.3	3442.4	3348.3	3314.6
25°	3262.7	2872.4	2668.8	2692.7	2754.5	3043.7	3492.9	3653.0	3565.9	3521.0
27.5°	3370.8	2907.5	2661.8	2716.6	2786.7	3118.1	3641.7	3933.7	3843.9	3793.3
30°	3557.5	3039.4	2769.9	2845.7	2929.9	3313.2	3891.6	4325.4	4196.3	4148.5
32.5°	3857.9	3313.2	3104.0	3266.9	3348.3	3633.3	4266.5	4764.8	4659.6	4564.1
35°	4272.1	3937.9	3914.1	4293.1	4273.5	4239.8	4726.9	5303.9	5145.3	5052.6
37.5°	4842.1	4943.1	5120.0	5496.3	5483.6	5226.7	5332.0	5813.6	5732.1	5612.8
40°	5553.8	5768.6	6069.1	6608.2	6439.7	6116.8	6074.7	6335.8	6269.8	6129.4
42.5°	5973.6	6344.2	6917.0	7401.4	7266.6	6702.2	6654.5	7033.6	6889.0	6735.9
45°	6168.7	6813.1	7936.3	8591.9	8183.3	7091.1	7072.9	7943.3	7861.9	7656.9
47.5°	6258.6	7286.3	9129.6	10122.1	9358.4	7432.3	7366.3	9263.0	9156.3	8914.8
50°	6358.3	7939.1	10567.2	11895.3	10777.8	7818.3	7866.1	10492.8	10447.8	10162.9
52.5°	6577.3	8629.8	12337.5	13922.5	12498.9	8423.4	8723.9	11652.4	11349.2	11020.6
55°	6905.8	9382.3	14179.4	15993.3	14255.2	9236.3	9651.8	12268.7	11417.9	11054.3
57.5°	6542.2	9570.4	15270.3	17439.3	15034.4	9239.1	8867.1	11200.3	10042.1	9689.7
60°	5191.6	8903.6	14850.5	17126.2	14370.3	8204.4	6789.3	8744.9	7607.7	7371.9
62.5°	3509.8	7467.4	13073.1	14484.1	12299.6	6453.7	4412.5	5687.2	4710.1	4515.0
65°	1923.3	5570.7	10563.0	10957.5	9626.6	4507.9	2270.1	2468.1	1879.8	1792.8
67.5°	530.7	3877.6	7772.0	7269.4	6754.2	2935.6	586.8	440.8	314.5	311.7
70°	133.4	2564.9	4656.7	4799.9	4141.5	1879.8	112.3	53.3	42.1	40.7
72.5°	56.2	1103.5	2209.7	2539.7	2119.9	870.4	40.7	15.4	12.6	9.8
75°	7.0	88.4	188.1	285.0	195.1	94.1	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)