

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: P637874

Luminaire Tested: GWS-SA4D-760-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637874
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-SA4D-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: 13248.3 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 - G2

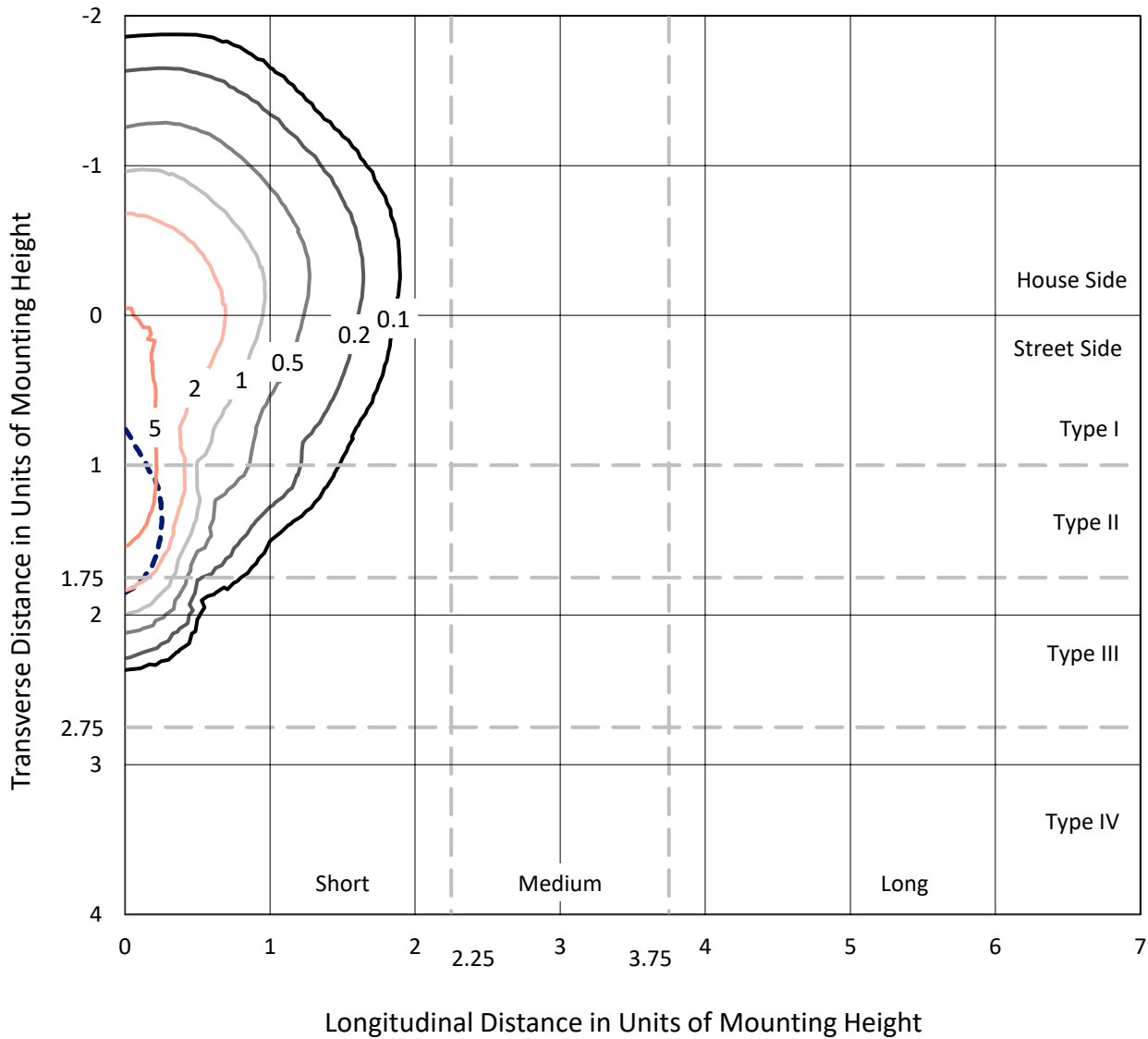
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

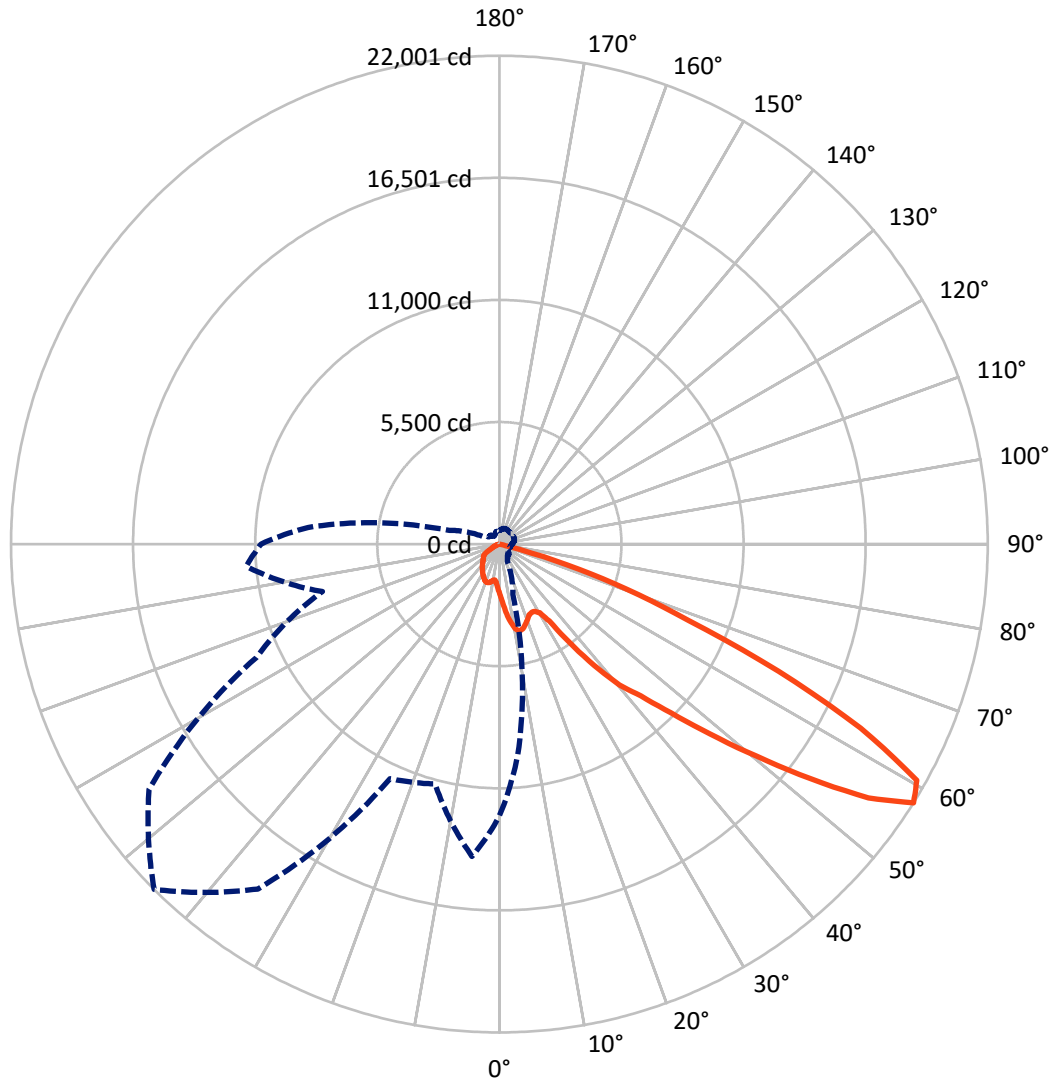
× Max cd
 - - - 1/2 Max cd



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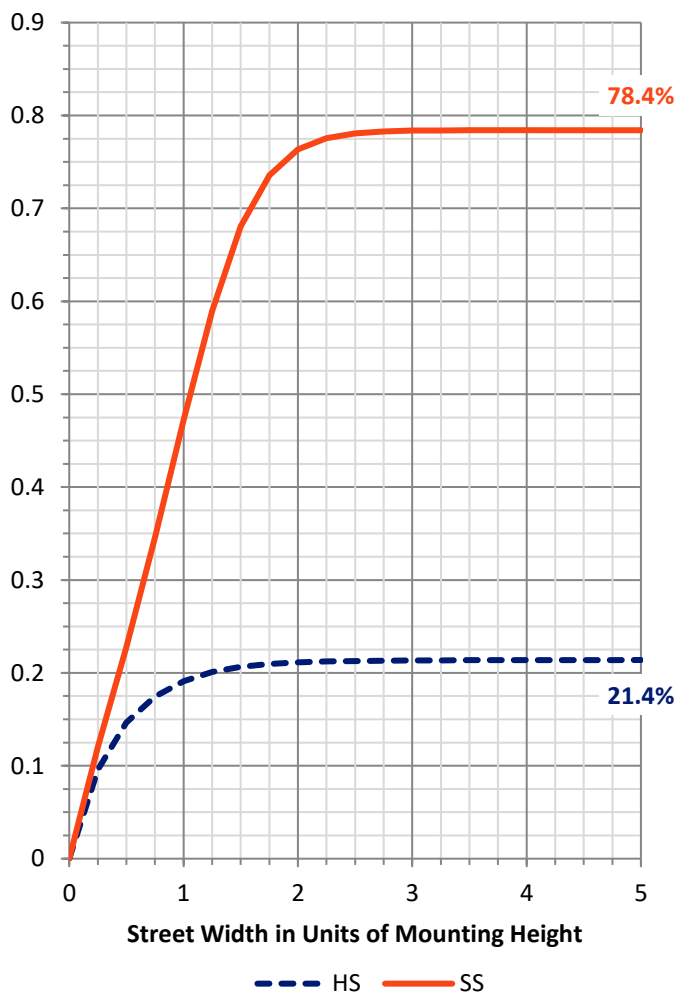
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2854.1	0.0	2854.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	10394.2	0.0	10394.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	13248.3	0.0	13248.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.7
10°-20°	732.1	5.5
20°-30°	1188.1	9.0
30°-40°	1823.5	13.8
40°-50°	2912.3	22.0
50°-60°	4077.7	30.8
60°-70°	2090.8	15.8
70°-80°	201.3	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°	13248.3	100.0
0°-180°	13248.3	100.0

Coefficient of Utilization



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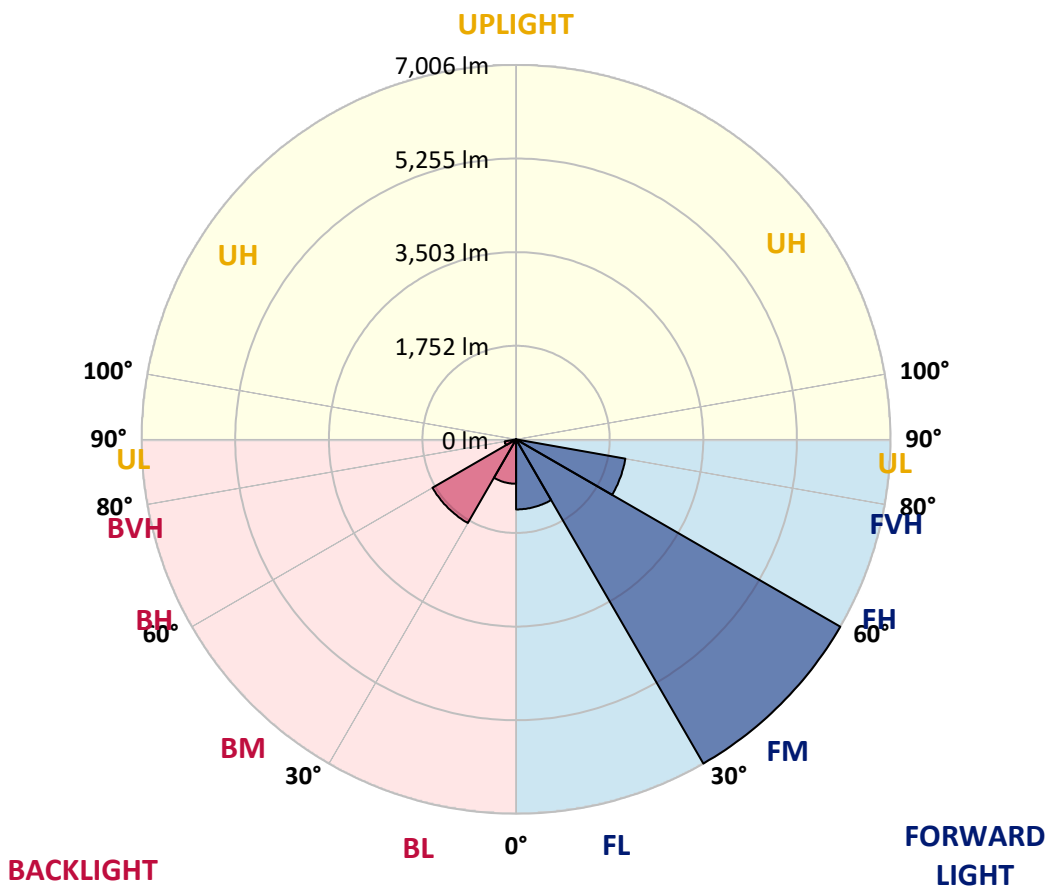
CATALOG NUMBER: GWS-SA4D-760-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.7	9.9			
FM (30°-60°)	7006.0	52.9			
FH (60°-80°)	2076.5	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	831.1	6.3	B2/1000		
BM (30°-60°)	1807.5	13.6	B2/2500		
BH (60°-80°)	215.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2500.8	2495.5	2477.8	2417.6	2380.4	2321.9	2279.4	2224.5	2164.3	2127.1	2089.9
5°	2766.5	2752.3	2704.5	2566.3	2460.1	2345.0	2252.9	2151.9	2043.9	1973.0	1907.5
7.5°	3021.5	3000.3	2936.5	2702.7	2541.5	2376.8	2245.8	2098.8	1946.5	1840.2	1758.7
10°	3271.2	3223.4	3122.5	2835.5	2617.7	2419.3	2265.3	2097.0	1918.1	1783.5	1693.2
12.5°	3476.7	3441.3	3303.1	2961.3	2681.5	2428.2	2238.7	2082.8	1962.4	1872.1	1788.8
15°	3653.8	3614.8	3483.8	3074.6	2736.4	2392.8	2127.1	1990.7	2010.2	2045.6	1974.8
17.5°	3816.7	3776.0	3634.3	3168.5	2757.6	2306.0	1971.2	1905.7	2013.8	2146.6	2120.0
20°	3985.0	3939.0	3765.4	3244.7	2750.5	2169.6	1813.6	1833.1	1985.4	2137.7	2151.9
22.5°	4181.6	4133.8	3931.9	3342.1	2745.2	2006.7	1677.2	1769.3	1932.3	2061.6	2086.4
25°	4441.9	4385.3	4163.9	3485.5	2759.4	1857.9	1579.8	1707.4	1842.0	1958.8	1973.0
27.5°	4785.5	4712.9	4431.3	3662.7	2789.5	1741.0	1537.3	1622.3	1726.8	1831.3	1843.7
30°	5233.6	5141.5	4737.7	3816.7	2775.3	1659.5	1509.0	1537.3	1599.3	1684.3	1686.1
32.5°	5757.9	5632.1	5081.3	3949.6	2653.1	1599.3	1470.0	1450.5	1464.7	1530.2	1542.6
35°	6374.2	6211.3	5460.3	4075.3	2430.0	1482.4	1399.2	1333.6	1328.3	1360.2	1390.3
37.5°	7080.9	6886.1	5938.5	4236.5	2166.1	1360.2	1294.7	1229.2	1200.8	1216.8	1262.8
40°	7732.7	7516.6	6438.0	4431.3	1896.9	1250.4	1172.5	1105.2	1071.5	1076.8	1133.5
42.5°	8497.8	8274.6	7049.0	4686.4	1673.7	1176.0	1045.0	975.9	931.6	956.4	1021.9
45°	9659.6	9406.4	7939.9	4907.7	1496.6	1158.3	933.4	836.0	814.7	857.2	935.1
47.5°	11246.6	10936.6	9163.7	5042.4	1346.0	1174.2	855.4	722.6	727.9	775.7	853.7
50°	12821.1	12486.3	10578.8	4865.2	1222.1	1142.4	816.5	634.1	667.7	710.2	781.1
52.5°	13903.2	13467.5	11267.8	4353.4	1108.7	1021.9	812.9	550.8	614.6	628.7	689.0
55°	13945.7	13409.1	10915.4	3432.4	954.6	862.5	775.7	481.7	556.1	561.4	612.8
57.5°	12224.2	11738.9	9539.2	2357.3	848.4	632.3	618.1	421.5	456.9	501.2	533.1
60°	9300.1	8887.4	7134.0	1080.4	644.7	402.0	423.3	363.1	341.8	407.4	439.2
62.5°	5695.9	5432.0	4279.0	478.2	410.9	214.3	256.8	288.7	256.8	281.6	308.2
65°	2261.7	2144.8	1624.1	203.7	168.3	108.0	116.9	168.3	180.7	198.4	223.2
67.5°	393.2	371.9	272.8	90.3	69.1	65.5	56.7	77.9	109.8	122.2	141.7
70°	51.4	49.6	44.3	37.2	35.4	31.9	24.8	49.6	74.4	77.9	90.3
72.5°	12.4	10.6	10.6	8.9	10.6	3.5	3.5	26.6	53.1	54.9	63.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	33.7	37.2	44.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
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°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2059.8	2024.4	2012.0	1994.3	1971.2	1978.3	1946.5	1935.8	1951.8	1973.0	1967.7
5°	1872.1	1833.1	1806.5	1765.8	1758.7	1742.8	1732.1	1718.0	1735.7	1760.5	1765.8
7.5°	1723.3	1689.6	1663.1	1650.7	1641.8	1634.7	1613.5	1602.9	1602.9	1613.5	1622.3
10°	1659.5	1634.7	1629.4	1633.0	1647.1	1645.4	1625.9	1611.7	1594.0	1585.1	1595.8
12.5°	1748.1	1707.4	1700.3	1702.0	1719.7	1718.0	1696.7	1679.0	1675.5	1679.0	1712.7
15°	1898.6	1836.6	1790.6	1781.7	1790.6	1787.1	1771.1	1760.5	1765.8	1817.2	1873.8
17.5°	2033.2	1937.6	1854.4	1822.5	1820.7	1815.4	1799.4	1795.9	1822.5	1918.1	2001.4
20°	2072.2	1978.3	1859.7	1818.9	1810.1	1804.8	1787.1	1792.4	1826.0	1941.1	2012.0
22.5°	2020.8	1930.5	1806.5	1765.8	1758.7	1756.9	1739.2	1746.3	1774.7	1875.6	1934.1
25°	1923.4	1847.3	1718.0	1682.6	1682.6	1679.0	1663.1	1666.6	1684.3	1772.9	1829.6
27.5°	1804.8	1732.1	1624.1	1588.7	1594.0	1599.3	1579.8	1574.5	1588.7	1671.9	1705.6
30°	1668.4	1617.0	1532.0	1500.1	1498.4	1519.6	1493.0	1486.0	1505.4	1571.0	1578.1
32.5°	1535.6	1510.8	1450.5	1425.7	1427.5	1431.1	1416.9	1416.9	1434.6	1470.0	1468.3
35°	1406.3	1390.3	1379.7	1362.0	1360.2	1353.1	1353.1	1356.7	1376.2	1388.6	1365.5
37.5°	1282.3	1298.2	1310.6	1292.9	1278.7	1278.7	1278.7	1294.7	1312.4	1307.1	1268.1
40°	1172.5	1206.1	1245.1	1225.6	1192.0	1190.2	1197.3	1223.8	1250.4	1218.5	1183.1
42.5°	1078.6	1121.1	1176.0	1165.4	1128.2	1122.9	1128.2	1161.8	1183.1	1142.4	1103.4
45°	986.5	1039.6	1105.2	1105.2	1064.4	1059.1	1060.9	1105.2	1117.6	1069.8	1020.2
47.5°	908.6	967.0	1036.1	1036.1	1002.4	991.8	1000.7	1046.7	1055.6	988.3	942.2
50°	834.2	898.0	974.1	968.8	945.8	936.9	952.9	1002.4	991.8	917.4	869.6
52.5°	740.3	807.6	912.1	917.4	905.0	906.8	926.3	958.2	928.1	837.7	797.0
55°	655.3	724.4	828.9	857.2	857.2	855.4	864.3	889.1	864.3	756.3	706.7
57.5°	563.2	621.7	708.4	715.5	720.8	701.4	713.8	747.4	735.0	642.9	614.6
60°	462.3	511.9	561.4	566.8	543.7	503.0	526.0	565.0	573.8	504.8	472.9
62.5°	327.7	375.5	433.9	433.9	410.9	370.2	400.3	433.9	421.5	350.7	331.2
65°	244.4	288.7	333.0	352.5	333.0	304.6	327.7	352.5	333.0	274.5	246.2
67.5°	157.6	187.7	214.3	230.2	233.8	230.2	240.9	233.8	210.8	171.8	155.9
70°	95.6	111.6	125.7	139.9	150.5	155.9	161.2	145.2	122.2	101.0	95.6
72.5°	69.1	83.2	95.6	106.3	118.7	122.2	122.2	111.6	90.3	70.8	65.5
75°	47.8	60.2	70.8	77.9	88.6	92.1	92.1	83.2	67.3	51.4	46.0
77.5°	1.8	12.4	12.4	10.6	14.2	17.7	17.7	21.3	19.5	14.2	12.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	1978.3	2042.1	2059.8	2125.3	2183.8	2242.2	2313.1	2355.6	2419.3	2463.6	2488.4
5°	1783.5	1836.6	1900.4	1997.8	2098.8	2210.3	2345.0	2461.8	2608.8	2716.9	2752.3
7.5°	1641.8	1710.9	1785.3	1907.5	2045.6	2194.4	2383.9	2575.2	2800.1	2947.1	3041.0
10°	1615.3	1686.1	1785.3	1905.7	2050.9	2221.0	2453.0	2700.9	2982.6	3161.4	3267.7
12.5°	1742.8	1818.9	1861.4	1916.3	2026.2	2215.7	2513.2	2828.5	3159.7	3354.5	3467.8
15°	1930.5	1997.8	1928.7	1859.7	1930.5	2159.0	2546.9	2934.7	3315.5	3540.5	3657.3
17.5°	2059.8	2065.1	1914.6	1767.6	1787.1	2056.3	2559.3	3041.0	3482.0	3717.6	3839.8
20°	2047.4	2004.9	1852.6	1689.6	1629.4	1923.4	2545.1	3134.9	3650.3	3896.4	4016.9
22.5°	1951.8	1902.2	1772.9	1613.5	1496.6	1765.8	2520.3	3219.9	3804.3	4084.2	4197.5
25°	1836.6	1783.5	1677.2	1537.3	1411.6	1613.5	2500.8	3336.8	3999.2	4328.6	4417.2
27.5°	1702.0	1656.0	1565.7	1464.7	1376.2	1498.4	2495.5	3490.9	4234.7	4626.1	4688.1
30°	1571.0	1528.5	1457.6	1399.2	1362.0	1431.1	2477.8	3655.6	4516.3	4968.0	5035.3
32.5°	1445.2	1402.7	1358.4	1349.6	1351.4	1406.3	2417.6	3818.5	4851.1	5463.9	5513.5
35°	1337.2	1287.6	1269.9	1291.1	1330.1	1363.8	2247.5	3953.1	5210.6	6004.1	6044.8
37.5°	1234.5	1184.9	1183.1	1234.5	1277.0	1298.2	2047.4	4086.0	5695.9	6553.1	6604.5
40°	1140.6	1091.0	1108.7	1170.7	1204.4	1215.0	1804.8	4287.9	6209.5	7132.3	7103.9
42.5°	1060.9	1009.5	1020.2	1099.9	1130.0	1158.3	1581.6	4456.1	6703.7	7681.3	7672.5
45°	983.0	944.0	936.9	1023.7	1050.3	1163.6	1418.7	4585.4	7339.5	8380.9	8395.1
47.5°	906.8	876.7	878.5	915.7	981.2	1190.2	1280.5	4670.4	8262.2	9489.6	9243.4
50°	837.7	814.7	834.2	791.7	936.9	1156.5	1161.8	4652.7	9293.0	10552.3	10058.1
52.5°	761.6	756.3	765.1	662.4	866.1	1020.2	1050.3	4417.2	9776.5	11278.4	10996.8
55°	683.6	681.9	611.0	529.6	724.4	814.7	899.7	3685.7	9760.6	11664.5	12006.4
57.5°	591.6	577.4	464.0	432.2	563.2	566.8	820.0	2414.0	8650.1	10740.0	11448.5
60°	448.1	437.5	340.1	350.7	393.2	363.1	653.5	1202.6	6464.6	8366.7	9165.5
62.5°	309.9	295.8	253.3	271.0	253.3	207.2	400.3	595.1	3915.9	5283.2	6007.6
65°	226.7	210.8	173.6	148.8	118.7	118.7	152.3	228.5	1516.1	2245.8	2708.0
67.5°	139.9	132.8	102.7	74.4	72.6	77.9	79.7	113.4	244.4	389.6	476.4
70°	90.3	83.2	69.1	47.8	44.3	46.0	47.8	53.1	62.0	67.3	81.5
72.5°	62.0	58.4	49.6	26.6	21.3	23.0	24.8	24.8	30.1	28.3	33.7
75°	44.3	40.7	35.4	12.4	7.1	8.9	10.6	8.9	10.6	7.1	8.9
77.5°	12.4	12.4	8.9	1.8	0.0	1.8	3.5	3.5	1.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	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: P637874

CATALOG NUMBER: GWS-SA4D-760-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2552.2	2592.9	2608.8	2585.8	2605.3	2573.4	2561.0	2513.2	2509.7	2500.8
5°	2895.8	2987.9	3042.8	3076.4	3037.5	2994.9	2931.2	2821.4	2787.7	2766.5
7.5°	3234.0	3377.5	3471.4	3515.7	3505.0	3418.2	3303.1	3118.9	3053.4	3021.5
10°	3528.1	3703.4	3816.7	3871.6	3848.6	3772.5	3607.8	3377.5	3290.7	3271.2
12.5°	3733.5	3894.7	3972.6	4020.4	4022.2	3992.1	3836.2	3604.2	3501.5	3476.7
15°	3862.8	3931.9	3933.6	3962.0	4011.6	4078.9	4006.3	3800.8	3691.0	3653.8
17.5°	3944.3	3868.1	3790.2	3797.3	3878.7	4057.6	4132.0	3974.4	3857.5	3816.7
20°	4002.7	3761.8	3616.6	3618.4	3701.6	3972.6	4218.8	4142.6	4022.2	3985.0
22.5°	4039.9	3668.0	3460.8	3455.4	3544.0	3871.6	4298.5	4342.8	4224.1	4181.6
25°	4116.1	3623.7	3366.9	3397.0	3474.9	3839.8	4406.5	4608.4	4498.6	4441.9
27.5°	4252.4	3668.0	3358.0	3427.1	3515.7	3933.6	4594.3	4962.7	4849.3	4785.5
30°	4488.0	3834.5	3494.4	3590.0	3696.3	4179.8	4909.5	5456.8	5293.9	5233.6
32.5°	4867.0	4179.8	3915.9	4121.4	4224.1	4583.6	5382.4	6011.2	5878.3	5757.9
35°	5389.5	4968.0	4937.9	5416.1	5391.3	5348.8	5963.3	6691.3	6491.1	6374.2
37.5°	6108.6	6236.1	6459.2	6933.9	6918.0	6593.8	6726.7	7334.2	7231.4	7080.9
40°	7006.5	7277.5	7656.5	8336.6	8124.1	7716.7	7663.6	7993.0	7909.8	7732.7
42.5°	7536.1	8003.7	8726.3	9337.3	9167.3	8455.3	8395.1	8873.3	8690.8	8497.8
45°	7782.3	8595.2	10012.1	10839.2	10323.8	8945.9	8922.9	10020.9	9918.2	9659.6
47.5°	7895.6	9192.1	11517.5	12769.7	11806.2	9376.3	9293.0	11685.8	11551.2	11246.6
50°	8021.4	10015.6	13331.2	15006.6	13596.8	9863.3	9923.5	13237.3	13180.6	12821.1
52.5°	8297.7	10887.0	15564.5	17564.1	15768.2	10626.7	11005.7	14700.2	14317.7	13903.2
55°	8712.1	11836.3	17888.2	20176.5	17983.9	11652.1	12176.4	15477.7	14404.4	13945.7
57.5°	8253.4	12073.7	19264.4	22000.7	18966.8	11655.7	11186.3	14129.9	12668.8	12224.2
60°	6549.6	11232.4	18734.8	21605.8	18129.1	10350.4	8565.1	11032.3	9597.7	9300.1
62.5°	4427.8	9420.5	16492.6	18272.6	15516.7	8141.8	5566.6	7174.8	5942.1	5695.9
65°	2426.4	7027.8	13325.8	13823.5	12144.5	5687.0	2863.9	3113.6	2371.5	2261.7
67.5°	669.5	4891.8	9804.9	9170.8	8520.8	3703.4	740.3	556.1	396.7	393.2
70°	168.3	3235.8	5874.8	6055.4	5224.8	2371.5	141.7	67.3	53.1	51.4
72.5°	70.8	1392.1	2787.7	3203.9	2674.4	1098.1	51.4	19.5	15.9	12.4
75°	8.9	111.6	237.3	359.5	246.2	118.7	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)