

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: P640023

Luminaire Tested: GWS-SA5D-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640023
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-SA5D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11805.2 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

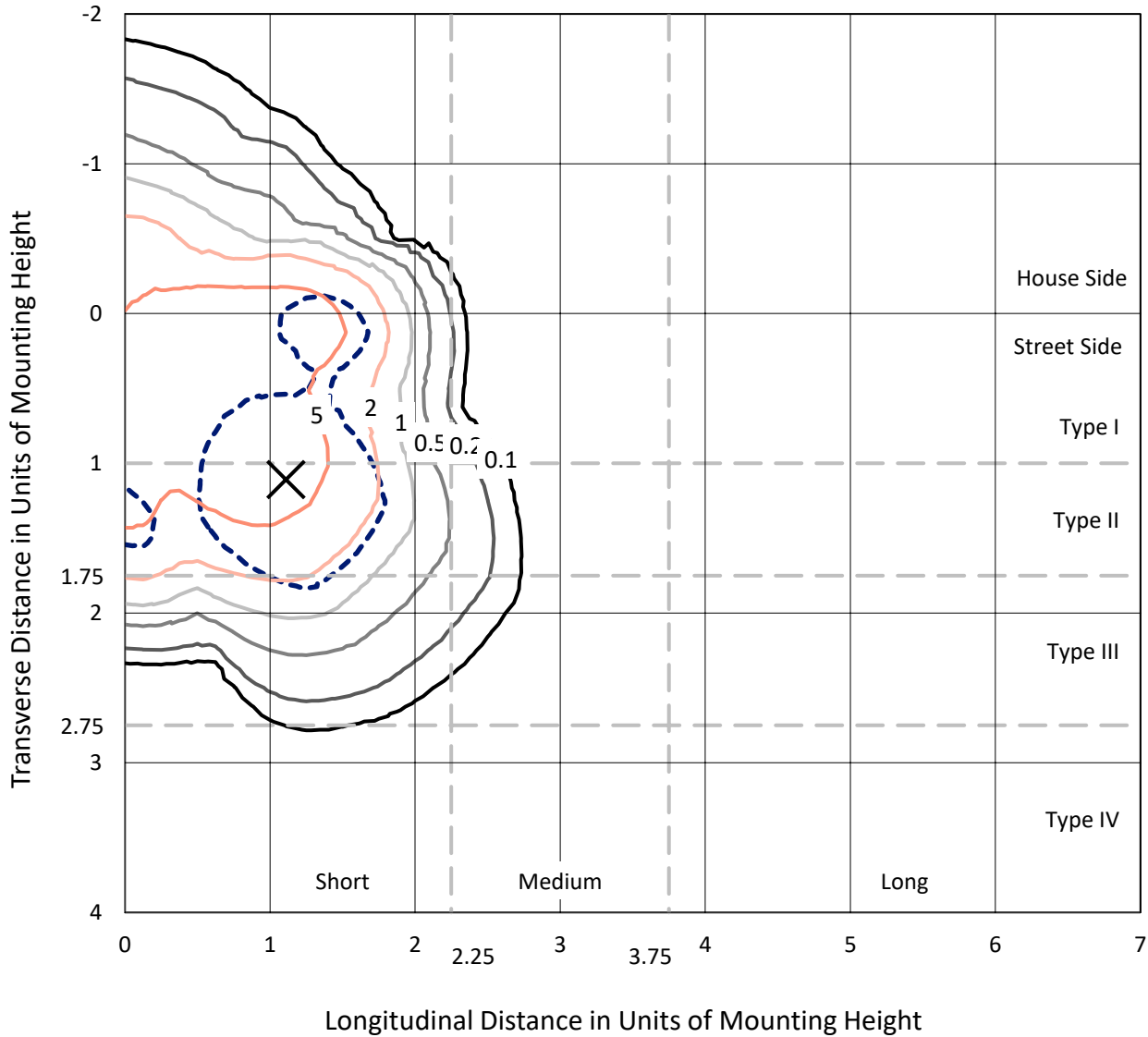
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

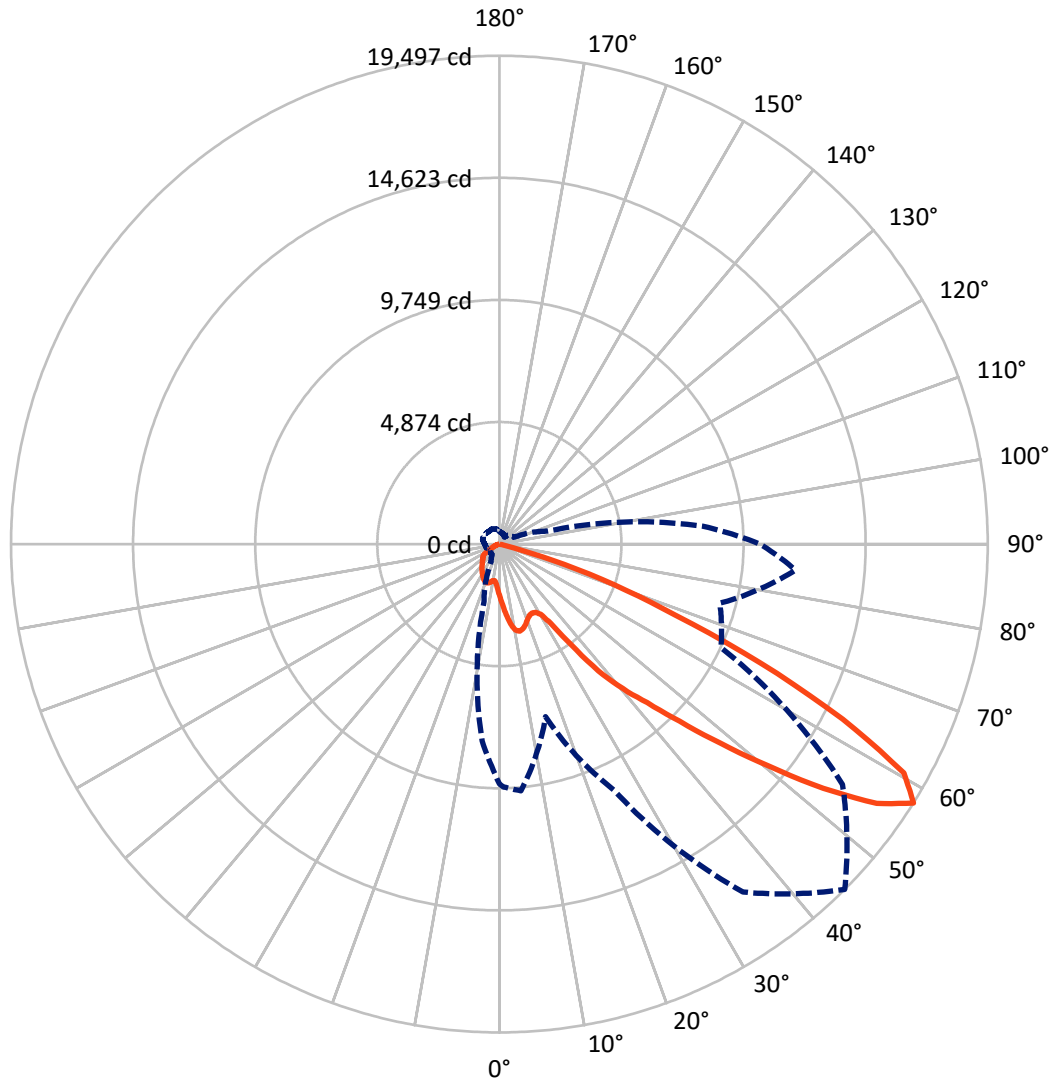
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.2 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	2643.5	0.0	2643.5
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9161.7	0.0	9161.7
	% Fixture	77.6	0.0	77.6
Total	Lumens	11805.2	0.0	11805.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	1.7
10°-20°	660.3	5.6
20°-30°	1072.7	9.1
30°-40°	1657.4	14.0
40°-50°	2657.6	22.5
50°-60°	3632.3	30.8
60°-70°	1759.2	14.9
70°-80°	161.1	1.4
80°-90°	0.5	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°	11805.2	100.0
0°-180°	11805.2	100.0

Coefficient of Utilization



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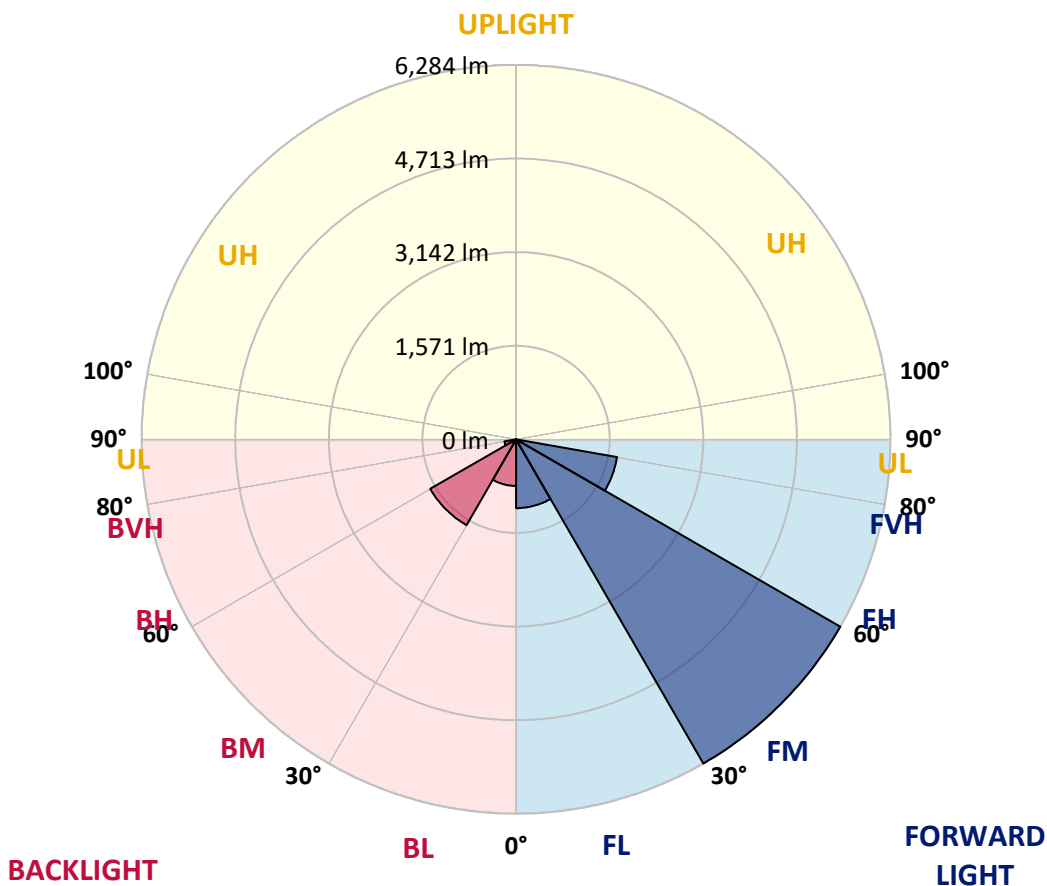
CATALOG NUMBER: GWS-SA5D-722-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.9	9.8			
FM (30°-60°)	6284.2	53.2			
FH (60°-80°)	1722.2	14.6			G1/1800
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	782.2	6.6	B2/1000		
BM (30°-60°)	1663.2	14.1	B2/2500		
BH (60°-80°)	198.1	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: 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°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	2247.8	2262.1	2285.9	2336.6	2379.5	2408.0	2420.7	2417.5	2400.1	2387.4	2362.0
5°	2488.9	2488.9	2534.9	2650.7	2739.6	2795.1	2823.6	2806.2	2771.3	2715.8	2630.1
7.5°	2699.9	2707.8	2785.6	2950.5	3085.4	3164.7	3210.7	3201.2	3139.3	3033.0	2861.7
10°	2864.9	2874.4	2977.5	3179.0	3337.6	3418.5	3486.7	3493.0	3424.8	3283.7	3087.0
12.5°	3025.1	3034.6	3142.5	3336.0	3475.6	3508.9	3569.2	3593.0	3575.5	3475.6	3271.0
15°	3198.0	3220.2	3312.2	3456.6	3515.3	3475.6	3515.3	3558.1	3616.8	3607.3	3423.3
17.5°	3367.7	3383.6	3477.2	3527.9	3462.9	3359.8	3378.8	3429.6	3562.8	3692.9	3574.0
20°	3524.8	3547.0	3624.7	3558.1	3361.4	3201.2	3202.8	3269.4	3472.4	3745.3	3727.8
22.5°	3689.8	3723.1	3778.6	3591.4	3267.8	3075.9	3083.8	3144.1	3401.0	3794.4	3902.3
25°	3905.5	3937.2	3973.7	3673.9	3237.7	3014.0	3044.1	3099.6	3401.0	3878.5	4118.1
27.5°	4197.4	4219.6	4221.2	3827.8	3290.0	3023.5	3087.0	3150.4	3502.6	4046.7	4406.8
30°	4563.8	4598.7	4552.7	4067.3	3453.4	3150.4	3244.0	3323.3	3721.5	4330.6	4831.9
32.5°	5009.6	5058.7	4996.9	4422.6	3794.4	3588.2	3758.0	3804.0	4070.5	4741.5	5314.1
35°	5533.0	5574.3	5507.7	4914.4	4590.8	4628.8	4936.6	4877.9	4771.6	5247.5	5877.3
37.5°	6107.3	6145.4	6016.9	5659.9	5767.8	5932.8	6424.5	6223.1	5880.4	5899.5	6488.0
40°	6633.9	6675.2	6473.7	6470.5	6692.6	6994.0	7587.3	7309.7	6843.3	6752.9	7060.7
42.5°	7179.6	7208.2	7025.8	6902.0	7406.5	8026.7	8654.9	8280.5	7481.0	7382.7	7777.7
45°	7958.5	8018.8	7693.6	7114.6	8048.9	9214.9	10090.5	9359.2	7915.7	7836.4	8875.4
47.5°	9103.8	9148.2	8485.2	7247.8	8647.0	10694.9	11884.6	10758.3	8298.0	8117.1	10376.0
50°	10050.8	10081.0	9213.3	7393.8	9283.1	12290.7	13929.4	12417.6	8727.9	8581.9	11776.7
52.5°	10748.8	10863.0	10169.8	7693.6	10119.1	14167.3	16193.0	14383.1	9398.9	9479.8	12937.9
55°	10893.2	11048.6	10823.4	7877.6	10855.1	16078.8	18283.8	16142.3	10068.3	10160.3	13328.2
57.5°	9573.4	9697.1	9884.3	7135.2	10837.7	16954.5	19497.3	16726.0	9763.7	9111.8	11867.2
60°	7171.7	7257.4	7596.8	5453.7	9966.8	16180.3	18551.9	15733.0	8537.5	6952.8	9042.0
62.5°	4252.9	4291.0	4720.9	3532.7	8272.6	13934.1	15385.6	13575.6	6746.6	4676.4	5537.8
65°	1632.3	1616.4	1944.8	1743.4	6083.5	11099.4	11443.6	10349.1	4628.8	2143.1	2111.4
67.5°	252.2	241.1	325.2	515.6	4387.7	7692.0	7550.8	7458.8	2899.8	499.7	436.2
70°	57.1	57.1	69.8	152.3	2680.9	4519.4	4836.7	4611.4	1856.0	106.3	57.1
72.5°	27.0	27.0	33.3	65.0	970.8	1862.3	2170.1	2136.8	602.8	34.9	20.6
75°	9.5	11.1	11.1	14.3	58.7	96.8	222.1	158.6	38.1	0.0	0.0
77.5°	3.2	3.2	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	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°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	2306.5	2295.4	2254.1	2198.6	2144.7	2097.1	2047.9	1989.2	1946.4	1897.2	1881.4
5°	2563.5	2493.7	2381.0	2263.7	2155.8	2063.8	1975.0	1879.8	1810.0	1740.2	1716.4
7.5°	2780.8	2677.7	2495.3	2319.2	2171.7	2041.6	1913.1	1783.0	1681.5	1599.0	1573.6
10°	2975.9	2856.9	2612.6	2395.3	2209.7	2059.0	1903.6	1740.2	1608.5	1510.2	1486.4
12.5°	3144.1	3006.1	2712.6	2452.4	2225.6	2052.7	1902.0	1771.9	1652.9	1540.3	1510.2
15°	3285.2	3133.0	2796.7	2490.5	2201.8	1973.4	1841.7	1821.1	1811.6	1687.8	1629.1
17.5°	3423.3	3251.9	2864.9	2508.0	2135.2	1833.8	1738.6	1832.2	1932.1	1851.2	1776.7
20°	3567.6	3372.5	2934.7	2511.1	2024.1	1676.7	1660.9	1808.4	1935.3	1909.9	1840.1
22.5°	3737.3	3523.2	3021.9	2509.5	1884.5	1543.5	1603.8	1762.4	1865.5	1863.9	1808.4
25°	3983.2	3713.5	3139.3	2519.1	1732.2	1440.4	1540.3	1684.7	1768.7	1765.6	1719.6
27.5°	4246.5	3940.4	3291.6	2542.9	1602.2	1380.1	1465.7	1578.4	1651.3	1648.2	1608.5
30°	4616.2	4202.1	3437.5	2544.4	1508.6	1348.4	1383.3	1461.0	1530.8	1522.9	1492.7
32.5°	5065.1	4497.2	3559.7	2454.0	1449.9	1318.2	1297.6	1337.3	1391.2	1380.1	1372.2
35°	5607.6	4847.8	3664.4	2255.7	1359.5	1257.9	1202.4	1210.4	1248.4	1254.8	1251.6
37.5°	6226.3	5265.0	3794.4	1994.0	1237.3	1170.7	1096.1	1089.8	1112.0	1132.6	1148.5
40°	6837.0	5734.5	3970.5	1729.1	1126.3	1059.7	988.3	972.4	981.9	1018.4	1051.7
42.5°	7523.9	6278.6	4160.9	1502.2	1050.1	937.5	869.3	839.2	866.1	924.8	964.5
45°	8513.7	7041.6	4346.5	1321.4	1018.4	829.6	737.6	734.5	764.6	840.7	885.2
47.5°	9903.3	8028.3	4468.6	1180.2	1016.8	745.6	636.1	655.1	690.0	764.6	815.4
50°	11258.0	9264.0	4333.8	1072.3	983.5	690.0	560.0	598.0	632.9	698.0	750.3
52.5°	12075.0	9928.7	3808.7	970.8	880.4	664.7	485.4	552.0	558.4	617.1	672.6
55°	11989.3	9498.8	2917.2	813.8	728.1	628.2	407.7	498.1	501.3	545.7	593.3
57.5°	10406.2	8155.2	2003.5	659.9	547.3	518.7	336.3	420.4	450.5	477.5	512.4
60°	7755.5	5950.2	893.1	536.2	347.4	350.6	287.1	317.3	363.3	395.0	425.1
62.5°	4570.2	3423.3	363.3	322.0	191.9	220.5	231.6	231.6	260.2	283.9	303.0
65°	1727.5	1197.7	147.5	161.8	99.9	103.1	136.4	168.1	190.4	211.0	236.4
67.5°	303.0	209.4	76.1	60.3	58.7	52.3	69.8	109.5	122.1	138.0	149.1
70°	50.8	42.8	31.7	30.1	27.0	28.6	46.0	77.7	85.7	90.4	95.2
72.5°	14.3	12.7	9.5	7.9	6.3	7.9	28.6	60.3	63.5	66.6	71.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	11.1	42.8	46.0	47.6	52.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	12.7	15.9	12.7
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°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	1871.8	1840.1	1822.7	1813.1	1813.1	1800.5	1786.2	1781.4	1802.0	1802.0	1836.9
5°	1686.2	1660.9	1632.3	1614.9	1587.9	1592.7	1576.8	1575.2	1595.8	1605.3	1641.8
7.5°	1557.8	1526.0	1508.6	1497.5	1483.2	1476.9	1462.6	1457.8	1468.9	1484.8	1519.7
10°	1472.1	1467.3	1465.7	1473.7	1473.7	1465.7	1453.1	1445.1	1448.3	1478.4	1518.1
12.5°	1494.3	1503.8	1507.0	1519.7	1526.0	1519.7	1510.2	1513.3	1534.0	1589.5	1648.2
15°	1591.1	1583.1	1580.0	1586.3	1591.1	1584.7	1581.5	1605.3	1676.7	1756.0	1822.7
17.5°	1694.2	1643.4	1621.2	1621.2	1624.4	1621.2	1624.4	1670.4	1786.2	1865.5	1914.7
20°	1746.5	1652.9	1618.0	1610.1	1616.4	1618.0	1629.1	1681.5	1808.4	1863.9	1875.0
22.5°	1730.7	1613.3	1573.6	1567.3	1573.6	1580.0	1591.1	1635.5	1754.5	1783.0	1778.3
25°	1651.3	1535.5	1503.8	1503.8	1518.1	1516.5	1521.3	1553.0	1651.3	1668.8	1660.9
27.5°	1551.4	1442.0	1415.0	1430.8	1443.5	1440.4	1442.0	1468.9	1541.9	1546.7	1538.7
30°	1449.9	1354.7	1329.3	1348.4	1365.8	1362.6	1364.2	1391.2	1437.2	1432.4	1421.3
32.5°	1346.8	1277.0	1257.9	1269.0	1296.0	1292.8	1299.2	1327.7	1345.2	1324.6	1311.9
35°	1251.6	1215.1	1200.8	1207.2	1227.8	1232.6	1243.7	1262.7	1262.7	1237.3	1215.1
37.5°	1162.8	1158.0	1148.5	1140.6	1159.6	1173.9	1189.7	1211.9	1180.2	1143.7	1123.1
40°	1080.3	1100.9	1088.2	1067.6	1078.7	1099.3	1131.0	1148.5	1110.4	1073.9	1039.0
42.5°	1004.1	1039.0	1034.3	1008.9	1018.4	1037.4	1073.9	1088.2	1043.8	1002.5	969.2
45°	931.2	980.3	983.5	951.8	961.3	980.3	1023.2	1027.9	970.8	926.4	902.6
47.5°	867.7	921.6	923.2	899.4	902.6	929.6	969.2	970.8	905.8	864.5	834.4
50°	807.4	869.3	874.1	853.4	856.6	888.3	921.6	915.3	845.5	802.7	775.7
52.5°	734.5	818.5	829.6	820.1	832.8	858.2	878.8	856.6	775.7	732.9	709.1
55°	655.1	764.6	788.4	782.0	796.3	816.9	821.7	807.4	705.9	663.1	640.9
57.5°	563.1	629.8	671.0	658.3	669.4	690.0	704.3	693.2	617.1	583.8	564.7
60°	466.4	510.8	520.3	499.7	490.2	526.7	560.0	545.7	480.7	460.0	437.8
62.5°	341.1	391.8	398.2	371.2	360.1	399.7	428.3	414.0	342.6	320.4	303.0
65°	272.8	320.4	333.1	307.7	301.4	331.5	349.0	314.1	263.3	239.5	220.5
67.5°	179.3	217.3	250.6	249.1	236.4	245.9	233.2	204.6	168.1	155.5	142.8
70°	111.0	133.2	153.9	161.8	160.2	157.0	139.6	119.0	107.9	103.1	96.8
72.5°	85.7	107.9	123.7	128.5	130.1	125.3	111.0	92.0	80.9	74.6	69.8
75°	63.5	80.9	93.6	99.9	103.1	99.9	85.7	73.0	61.9	57.1	52.3
77.5°	22.2	27.0	33.3	36.5	34.9	33.3	30.1	30.1	23.8	22.2	19.0
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: P640023

CATALOG NUMBER: GWS-SA5D-722-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9	2074.9
2.5°	1876.6	1905.2	1957.5	2005.1	2055.9	2108.2	2165.3	2224.0	2251.0	2247.8
5°	1697.3	1759.2	1844.9	1938.5	2043.2	2155.8	2281.1	2409.6	2465.1	2488.9
7.5°	1584.7	1672.0	1784.6	1903.6	2041.6	2201.8	2390.6	2592.0	2672.9	2699.9
10°	1599.0	1700.5	1794.1	1909.9	2057.4	2265.2	2500.0	2739.6	2834.7	2864.9
12.5°	1714.8	1737.0	1762.4	1857.6	2043.2	2312.8	2600.0	2885.5	2994.9	3025.1
15°	1819.5	1716.4	1668.8	1756.0	1992.4	2346.1	2701.5	3042.5	3163.1	3198.0
17.5°	1824.3	1668.8	1562.5	1630.7	1909.9	2360.4	2801.4	3202.8	3334.4	3367.7
20°	1765.6	1616.4	1480.0	1481.6	1797.3	2357.3	2883.9	3347.1	3494.6	3524.8
22.5°	1679.9	1554.6	1413.4	1364.2	1676.7	2350.9	2974.3	3501.0	3661.2	3689.8
25°	1584.7	1475.3	1349.9	1275.4	1556.2	2357.3	3101.2	3702.4	3878.5	3905.5
27.5°	1481.6	1388.0	1300.8	1240.5	1454.6	2381.0	3253.5	3959.4	4168.8	4197.4
30°	1373.7	1303.9	1269.0	1232.6	1391.2	2387.4	3418.5	4259.2	4524.1	4563.8
32.5°	1267.5	1229.4	1231.0	1237.3	1330.9	2343.0	3569.2	4592.4	4946.1	5009.6
35°	1169.1	1158.0	1189.7	1221.5	1243.7	2228.8	3700.9	4985.8	5468.0	5533.0
37.5°	1085.0	1094.6	1134.2	1165.9	1148.5	2067.0	3875.3	5477.5	6051.8	6107.3
40°	1004.1	1027.9	1073.9	1088.2	1075.5	1878.2	4084.7	5951.8	6557.8	6633.9
42.5°	929.6	947.0	1012.1	1015.2	1054.9	1686.2	4286.2	6462.6	7140.0	7179.6
45°	869.3	866.1	932.7	953.4	1081.9	1473.7	4482.9	7143.1	7901.4	7958.5
47.5°	810.6	807.4	823.3	916.9	1093.0	1277.0	4678.0	8139.3	9005.5	9103.8
50°	755.1	759.8	710.7	899.4	1032.7	1126.3	4766.9	9061.0	10009.6	10050.8
52.5°	705.9	688.5	602.8	842.3	904.2	983.5	4514.6	9479.8	10631.4	10748.8
55°	636.1	539.3	496.5	683.7	713.8	858.2	3697.7	9237.1	10685.4	10893.2
57.5°	544.1	423.5	422.0	504.4	504.4	796.3	2368.4	7891.9	9208.5	9573.4
60°	418.8	328.4	349.0	350.6	323.6	580.6	1329.3	5717.1	6808.4	7171.7
62.5°	298.2	250.6	263.3	209.4	185.6	290.3	637.7	3291.6	4202.1	4252.9
65°	199.9	169.7	138.0	115.8	114.2	123.7	263.3	1189.7	1446.7	1632.3
67.5°	131.7	103.1	73.0	73.0	82.5	82.5	99.9	196.7	276.0	252.2
70°	85.7	71.4	46.0	44.4	53.9	53.9	50.8	53.9	57.1	57.1
72.5°	63.5	53.9	27.0	23.8	30.1	31.7	28.6	27.0	27.0	27.0
75°	47.6	38.1	15.9	11.1	14.3	19.0	15.9	11.1	11.1	9.5
77.5°	19.0	14.3	6.3	4.8	7.9	11.1	9.5	4.8	3.2	3.2
80°	1.6	3.2	3.2	3.2	4.8	6.3	7.9	3.2	1.6	1.6
82.5°	0.0	1.6	1.6	1.6	3.2	4.8	6.3	3.2	1.6	1.6
85°	0.0	0.0	0.0	0.0	3.2	4.8	3.2	1.6	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.6	4.8	3.2	1.6	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)