

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: P637049

Luminaire Tested: GWS-SA4C-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637049
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7667.1 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

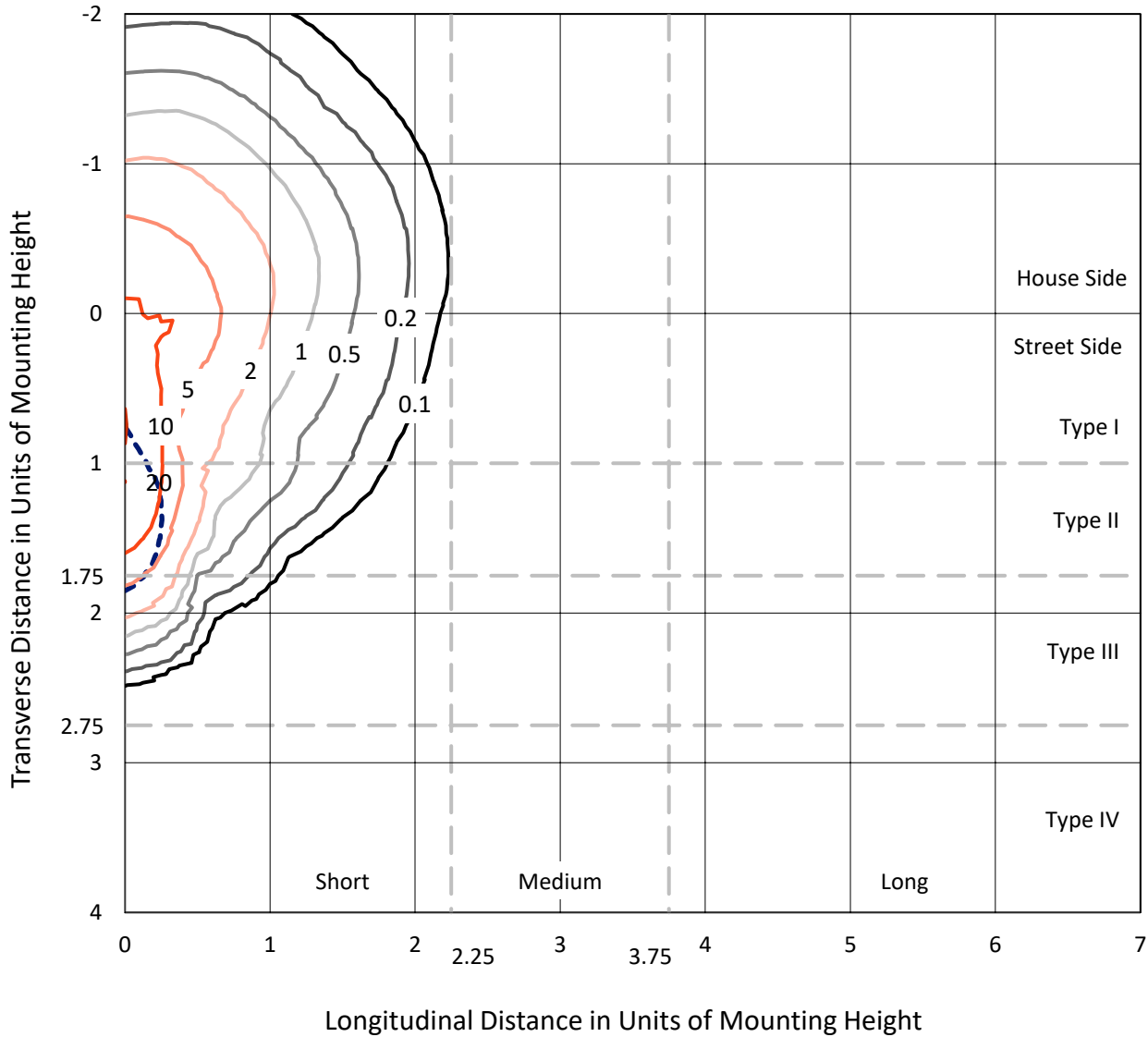
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

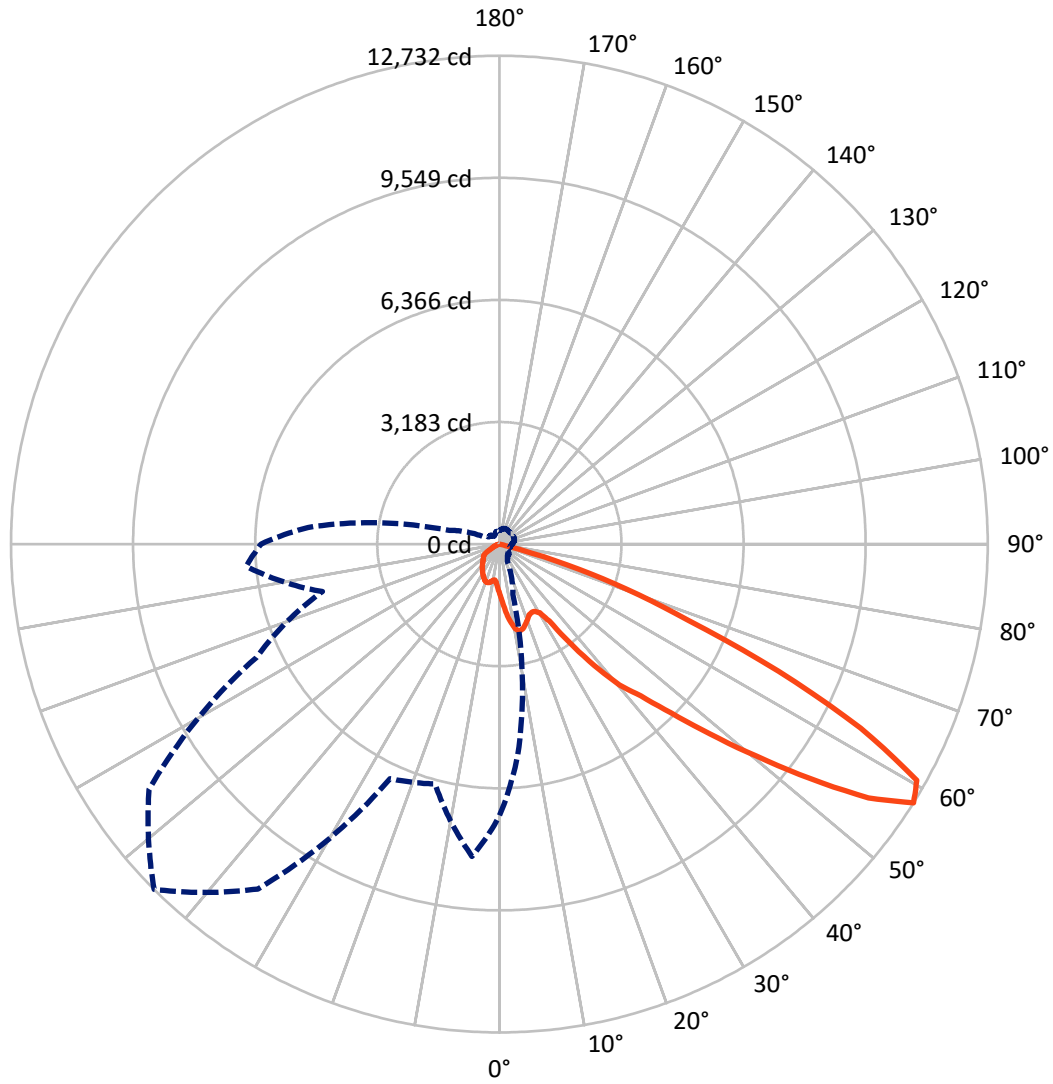
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 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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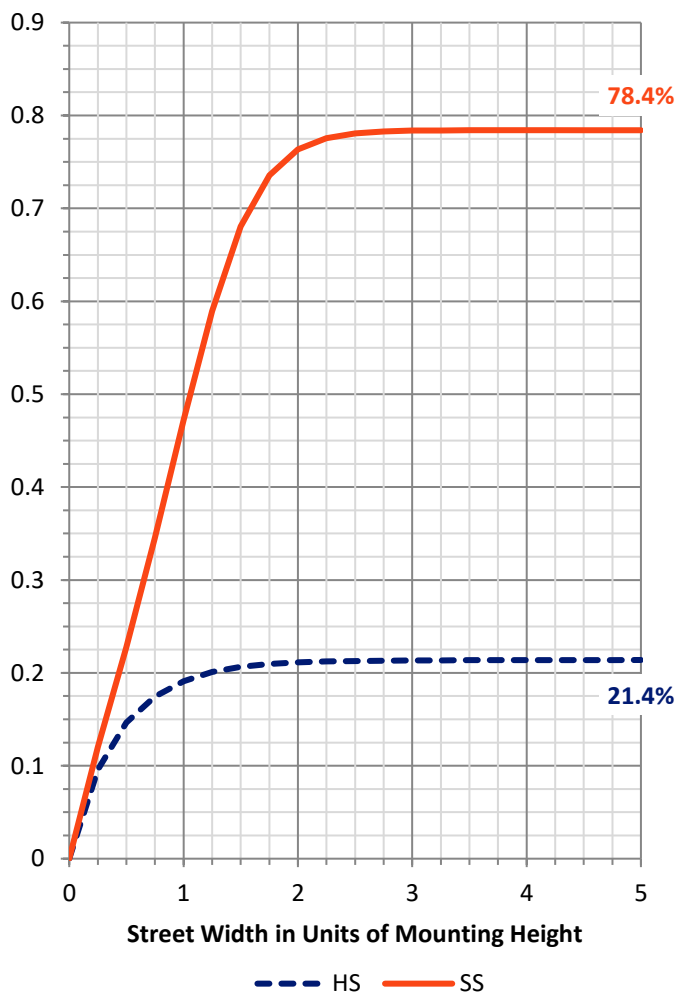
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1651.7	0.0	1651.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	6015.3	0.0	6015.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	7667.1	0.0	7667.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.7
10°-20°	423.7	5.5
20°-30°	687.6	9.0
30°-40°	1055.3	13.8
40°-50°	1685.4	22.0
50°-60°	2359.9	30.8
60°-70°	1210.0	15.8
70°-80°	116.5	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°	7667.1	100.0
0°-180°	7667.1	100.0

Coefficient of Utilization



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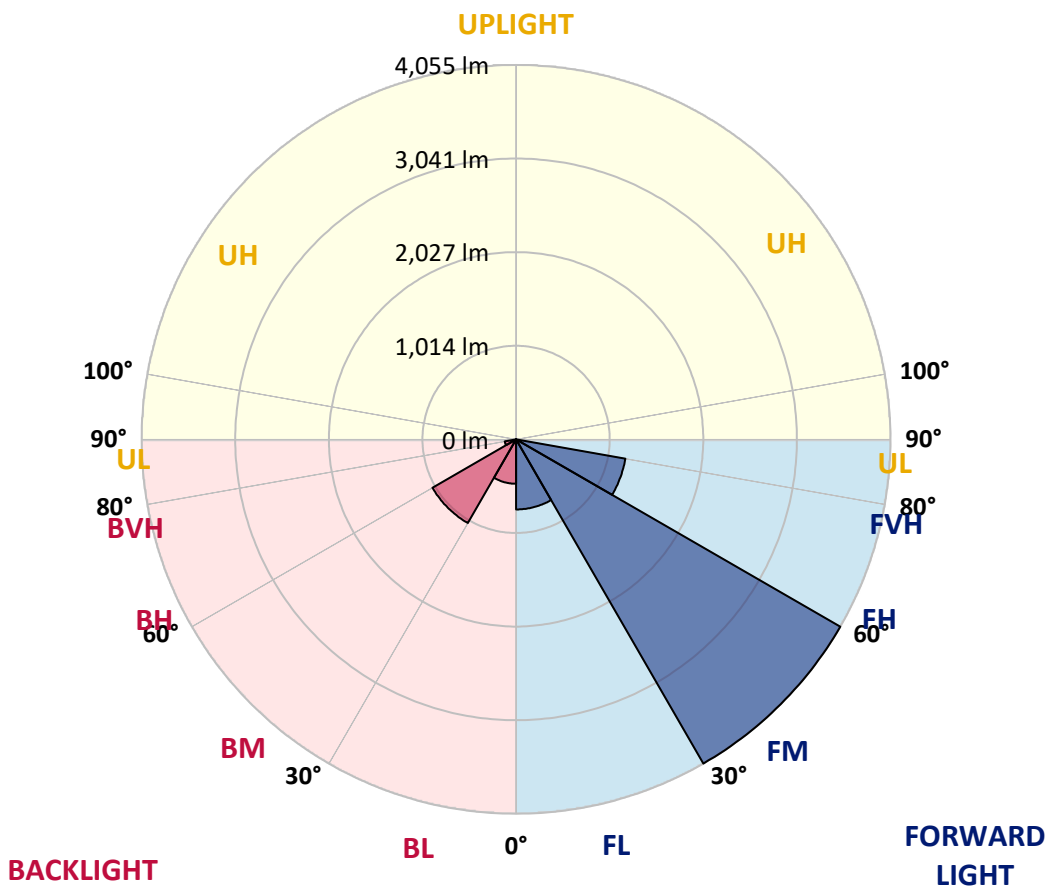
CATALOG NUMBER: GWS-SA4C-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.1	9.9			
FM (30°-60°)	4054.5	52.9			
FH (60°-80°)	1201.7	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	481.0	6.3	B1/500		
BM (30°-60°)	1046.0	13.6	B2/2500		
BH (60°-80°)	124.7	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°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1447.3	1444.2	1434.0	1399.1	1377.6	1343.8	1319.2	1287.4	1252.5	1231.0	1209.5
5°	1601.0	1592.8	1565.1	1485.2	1423.7	1357.1	1303.8	1245.4	1182.8	1141.8	1103.9
7.5°	1748.6	1736.3	1699.4	1564.1	1470.9	1375.5	1299.7	1214.6	1126.5	1065.0	1017.8
10°	1893.1	1865.5	1807.0	1641.0	1514.9	1400.1	1311.0	1213.6	1110.1	1032.2	979.9
12.5°	2012.0	1991.5	1911.6	1713.8	1551.8	1405.3	1295.6	1205.4	1135.7	1083.4	1035.2
15°	2114.5	2092.0	2016.1	1779.4	1583.6	1384.8	1231.0	1152.1	1163.4	1183.9	1142.9
17.5°	2208.8	2185.3	2103.3	1833.7	1595.9	1334.5	1140.8	1102.9	1165.4	1242.3	1226.9
20°	2306.2	2279.6	2179.1	1877.8	1591.8	1255.6	1049.6	1060.9	1149.0	1237.2	1245.4
22.5°	2420.0	2392.3	2275.5	1934.1	1588.7	1161.3	970.7	1024.0	1118.3	1193.1	1207.4
25°	2570.7	2537.9	2409.7	2017.2	1596.9	1075.2	914.3	988.1	1066.0	1133.6	1141.8
27.5°	2769.5	2727.5	2564.5	2119.7	1614.3	1007.6	889.7	938.9	999.4	1059.8	1067.0
30°	3028.8	2975.5	2741.8	2208.8	1606.1	960.4	873.3	889.7	925.6	974.8	975.8
32.5°	3332.2	3259.4	2940.7	2285.7	1535.4	925.6	850.7	839.5	847.7	885.6	892.8
35°	3688.9	3594.6	3160.0	2358.5	1406.3	857.9	809.7	771.8	768.7	787.2	804.6
37.5°	4097.9	3985.1	3436.8	2451.8	1253.6	787.2	749.3	711.3	694.9	704.2	730.8
40°	4475.1	4350.0	3725.8	2564.5	1097.8	723.6	678.5	639.6	620.1	623.2	656.0
42.5°	4917.9	4788.7	4079.4	2712.1	968.6	680.6	604.7	564.8	539.1	553.5	591.4
45°	5590.3	5443.7	4595.0	2840.2	866.1	670.3	540.2	483.8	471.5	496.1	541.2
47.5°	6508.6	6329.3	5303.3	2918.1	779.0	679.6	495.1	418.2	421.3	448.9	494.0
50°	7419.9	7226.1	6122.2	2815.6	707.2	661.1	472.5	366.9	386.4	411.0	452.0
52.5°	8046.1	7794.0	6520.9	2519.4	641.6	591.4	470.5	318.8	355.7	363.9	398.7
55°	8070.7	7760.1	6317.0	1986.4	552.5	499.2	448.9	278.8	321.8	324.9	354.6
57.5°	7074.4	6793.6	5520.6	1364.3	491.0	365.9	357.7	243.9	264.4	290.1	308.5
60°	5382.2	5143.4	4128.6	625.2	373.1	232.7	245.0	210.1	197.8	235.7	254.2
62.5°	3296.3	3143.6	2476.4	276.7	237.8	124.0	148.6	167.1	148.6	163.0	178.3
65°	1308.9	1241.3	939.9	117.9	97.4	62.5	67.6	97.4	104.5	114.8	129.1
67.5°	227.5	215.2	157.8	52.3	40.0	37.9	32.8	45.1	63.5	70.7	82.0
70°	29.7	28.7	25.6	21.5	20.5	18.4	14.3	28.7	43.0	45.1	52.3
72.5°	7.2	6.1	6.1	5.1	6.1	2.0	2.0	15.4	30.7	31.8	36.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	19.5	21.5	25.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1192.1	1171.6	1164.4	1154.1	1140.8	1144.9	1126.5	1120.3	1129.5	1141.8	1138.8
5°	1083.4	1060.9	1045.5	1021.9	1017.8	1008.6	1002.4	994.2	1004.5	1018.8	1021.9
7.5°	997.3	977.8	962.5	955.3	950.2	946.1	933.8	927.6	927.6	933.8	938.9
10°	960.4	946.1	943.0	945.0	953.2	952.2	940.9	932.7	922.5	917.4	923.5
12.5°	1011.7	988.1	984.0	985.0	995.3	994.2	981.9	971.7	969.6	971.7	991.2
15°	1098.8	1062.9	1036.3	1031.1	1036.3	1034.2	1025.0	1018.8	1021.9	1051.6	1084.4
17.5°	1176.7	1121.3	1073.2	1054.7	1053.7	1050.6	1041.4	1039.3	1054.7	1110.1	1158.2
20°	1199.2	1144.9	1076.2	1052.7	1047.5	1044.5	1034.2	1037.3	1056.8	1123.4	1164.4
22.5°	1169.5	1117.2	1045.5	1021.9	1017.8	1016.8	1006.5	1010.6	1027.0	1085.5	1119.3
25°	1113.1	1069.1	994.2	973.7	973.7	971.7	962.5	964.5	974.8	1026.0	1058.8
27.5°	1044.5	1002.4	939.9	919.4	922.5	925.6	914.3	911.2	919.4	967.6	987.1
30°	965.5	935.8	886.6	868.2	867.1	879.4	864.1	860.0	871.2	909.2	913.3
32.5°	888.7	874.3	839.5	825.1	826.1	828.2	820.0	820.0	830.2	850.7	849.7
35°	813.8	804.6	798.5	788.2	787.2	783.1	783.1	785.1	796.4	803.6	790.3
37.5°	742.1	751.3	758.5	748.2	740.0	740.0	740.0	749.3	759.5	756.4	733.9
40°	678.5	698.0	720.6	709.3	689.8	688.8	692.9	708.3	723.6	705.2	684.7
42.5°	624.2	648.8	680.6	674.4	652.9	649.8	652.9	672.4	684.7	661.1	638.6
45°	570.9	601.7	639.6	639.6	616.0	612.9	614.0	639.6	646.8	619.1	590.4
47.5°	525.8	559.6	599.6	599.6	580.1	574.0	579.1	605.8	610.9	571.9	545.3
50°	482.8	519.7	563.7	560.7	547.3	542.2	551.4	580.1	574.0	530.9	503.3
52.5°	428.4	467.4	527.9	530.9	523.8	524.8	536.1	554.5	537.1	484.8	461.2
55°	379.2	419.2	479.7	496.1	496.1	495.1	500.2	514.5	500.2	437.7	409.0
57.5°	325.9	359.8	410.0	414.1	417.2	405.9	413.1	432.5	425.4	372.1	355.7
60°	267.5	296.2	324.9	328.0	314.7	291.1	304.4	327.0	332.1	292.1	273.7
62.5°	189.6	217.3	251.1	251.1	237.8	214.2	231.6	251.1	243.9	202.9	191.7
65°	141.4	167.1	192.7	204.0	192.7	176.3	189.6	204.0	192.7	158.9	142.5
67.5°	91.2	108.6	124.0	133.2	135.3	133.2	139.4	135.3	122.0	99.4	90.2
70°	55.3	64.6	72.8	81.0	87.1	90.2	93.3	84.0	70.7	58.4	55.3
72.5°	40.0	48.2	55.3	61.5	68.7	70.7	70.7	64.6	52.3	41.0	37.9
75°	27.7	34.8	41.0	45.1	51.2	53.3	53.3	48.2	38.9	29.7	26.6
77.5°	1.0	7.2	7.2	6.1	8.2	10.2	10.2	12.3	11.3	8.2	7.2
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°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1144.9	1181.8	1192.1	1230.0	1263.8	1297.6	1338.6	1363.2	1400.1	1425.8	1440.1
5°	1032.2	1062.9	1099.8	1156.2	1214.6	1279.2	1357.1	1424.7	1509.8	1572.3	1592.8
7.5°	950.2	990.1	1033.2	1103.9	1183.9	1270.0	1379.6	1490.3	1620.5	1705.6	1759.9
10°	934.8	975.8	1033.2	1102.9	1186.9	1285.3	1419.6	1563.1	1726.1	1829.6	1891.1
12.5°	1008.6	1052.7	1077.3	1109.0	1172.6	1282.3	1454.5	1636.9	1828.6	1941.3	2006.9
15°	1117.2	1156.2	1116.2	1076.2	1117.2	1249.5	1473.9	1698.4	1918.8	2048.9	2116.6
17.5°	1192.1	1195.1	1108.0	1022.9	1034.2	1190.0	1481.1	1759.9	2015.1	2151.4	2222.2
20°	1184.9	1160.3	1072.1	977.8	943.0	1113.1	1472.9	1814.2	2112.5	2255.0	2324.7
22.5°	1129.5	1100.8	1026.0	933.8	866.1	1021.9	1458.6	1863.4	2201.7	2363.6	2429.2
25°	1062.9	1032.2	970.7	889.7	816.9	933.8	1447.3	1931.1	2314.4	2505.1	2556.3
27.5°	985.0	958.4	906.1	847.7	796.4	867.1	1444.2	2020.2	2450.7	2677.3	2713.1
30°	909.2	884.6	843.6	809.7	788.2	828.2	1434.0	2115.6	2613.7	2875.1	2914.0
32.5°	836.4	811.8	786.2	781.0	782.1	813.8	1399.1	2209.9	2807.4	3162.1	3190.8
35°	773.9	745.2	734.9	747.2	769.8	789.2	1300.7	2287.8	3015.5	3474.7	3498.3
37.5°	714.4	685.7	684.7	714.4	739.0	751.3	1184.9	2364.6	3296.3	3792.4	3822.2
40°	660.1	631.4	641.6	677.5	697.0	703.1	1044.5	2481.5	3593.6	4127.6	4111.2
42.5°	614.0	584.2	590.4	636.5	653.9	670.3	915.3	2578.9	3879.6	4445.4	4440.2
45°	568.9	546.3	542.2	592.4	607.8	673.4	821.0	2653.7	4247.5	4850.2	4858.4
47.5°	524.8	507.4	508.4	529.9	567.8	688.8	741.1	2702.9	4781.5	5491.9	5349.4
50°	484.8	471.5	482.8	458.2	542.2	669.3	672.4	2692.6	5378.1	6106.9	5820.9
52.5°	440.7	437.7	442.8	383.3	501.2	590.4	607.8	2556.3	5657.9	6527.1	6364.1
55°	395.6	394.6	353.6	306.5	419.2	471.5	520.7	2133.0	5648.7	6750.5	6948.4
57.5°	342.3	334.1	268.5	250.1	325.9	328.0	474.6	1397.1	5006.0	6215.5	6625.5
60°	259.3	253.2	196.8	202.9	227.5	210.1	378.2	696.0	3741.2	4842.0	5304.3
62.5°	179.4	171.2	146.6	156.8	146.6	119.9	231.6	344.4	2266.2	3057.5	3476.7
65°	131.2	122.0	100.4	86.1	68.7	68.7	88.1	132.2	877.4	1299.7	1567.2
67.5°	81.0	76.9	59.4	43.0	42.0	45.1	46.1	65.6	141.4	225.5	275.7
70°	52.3	48.2	40.0	27.7	25.6	26.6	27.7	30.7	35.9	38.9	47.1
72.5°	35.9	33.8	28.7	15.4	12.3	13.3	14.3	14.3	17.4	16.4	19.5
75°	25.6	23.6	20.5	7.2	4.1	5.1	6.1	5.1	6.1	4.1	5.1
77.5°	7.2	7.2	5.1	1.0	0.0	1.0	2.0	2.0	1.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	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-SA4C-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8	1302.8
2.5°	1477.0	1500.6	1509.8	1496.5	1507.8	1489.3	1482.1	1454.5	1452.4	1447.3
5°	1675.8	1729.1	1760.9	1780.4	1757.8	1733.2	1696.3	1632.8	1613.3	1601.0
7.5°	1871.6	1954.6	2009.0	2034.6	2028.4	1978.2	1911.6	1805.0	1767.1	1748.6
10°	2041.8	2143.2	2208.8	2240.6	2227.3	2183.2	2087.9	1954.6	1904.4	1893.1
12.5°	2160.7	2253.9	2299.0	2326.7	2327.7	2310.3	2220.1	2085.8	2026.4	2012.0
15°	2235.5	2275.5	2276.5	2292.9	2321.6	2360.5	2318.5	2199.6	2136.1	2114.5
17.5°	2282.6	2238.6	2193.5	2197.6	2244.7	2348.2	2391.3	2300.1	2232.4	2208.8
20°	2316.5	2177.1	2093.0	2094.0	2142.2	2299.0	2441.5	2397.4	2327.7	2306.2
22.5°	2338.0	2122.7	2002.8	1999.7	2051.0	2240.6	2487.6	2513.3	2444.6	2420.0
25°	2382.1	2097.1	1948.5	1965.9	2011.0	2222.2	2550.2	2667.0	2603.5	2570.7
27.5°	2461.0	2122.7	1943.4	1983.3	2034.6	2276.5	2658.8	2872.0	2806.4	2769.5
30°	2597.3	2219.1	2022.3	2077.6	2139.1	2419.0	2841.3	3158.0	3063.7	3028.8
32.5°	2816.7	2419.0	2266.2	2385.1	2444.6	2652.7	3114.9	3478.8	3401.9	3332.2
35°	3119.0	2875.1	2857.7	3134.4	3120.0	3095.4	3451.1	3872.4	3756.6	3688.9
37.5°	3535.2	3609.0	3738.1	4012.8	4003.6	3816.0	3892.9	4244.5	4185.0	4097.9
40°	4054.8	4211.7	4431.0	4824.6	4701.6	4465.9	4435.1	4625.8	4577.6	4475.1
42.5°	4361.3	4631.9	5050.1	5403.7	5305.3	4893.3	4858.4	5135.2	5029.6	4917.9
45°	4503.8	4974.2	5794.2	6272.9	5974.6	5177.2	5163.9	5799.4	5739.9	5590.3
47.5°	4569.4	5319.7	6665.5	7390.1	6832.5	5426.3	5378.1	6762.8	6684.9	6508.6
50°	4642.1	5796.3	7715.0	8684.7	7868.8	5708.1	5743.0	7660.7	7627.9	7419.9
52.5°	4802.0	6300.6	9007.6	10164.8	9125.4	6149.9	6369.2	8507.4	8286.0	8046.1
55°	5041.9	6850.0	10352.3	11676.6	10407.7	6743.4	7046.8	8957.3	8336.2	8070.7
57.5°	4776.4	6987.3	11148.7	12732.3	10976.5	6745.4	6473.8	8177.3	7331.7	7074.4
60°	3790.4	6500.4	10842.3	12503.8	10491.7	5990.0	4956.8	6384.6	5554.4	5382.2
62.5°	2562.5	5451.9	9544.6	10574.8	8979.9	4711.8	3221.5	4152.2	3438.8	3296.3
65°	1404.2	4067.1	7712.0	8000.0	7028.3	3291.2	1657.4	1801.9	1372.5	1308.9
67.5°	387.4	2831.0	5674.3	5307.4	4931.2	2143.2	428.4	321.8	229.6	227.5
70°	97.4	1872.6	3399.9	3504.4	3023.7	1372.5	82.0	38.9	30.7	29.7
72.5°	41.0	805.6	1613.3	1854.2	1547.7	635.5	29.7	11.3	9.2	7.2
75°	5.1	64.6	137.3	208.1	142.5	68.7	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)