

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: P636561

Luminaire Tested: GWS-SA4B-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10095 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

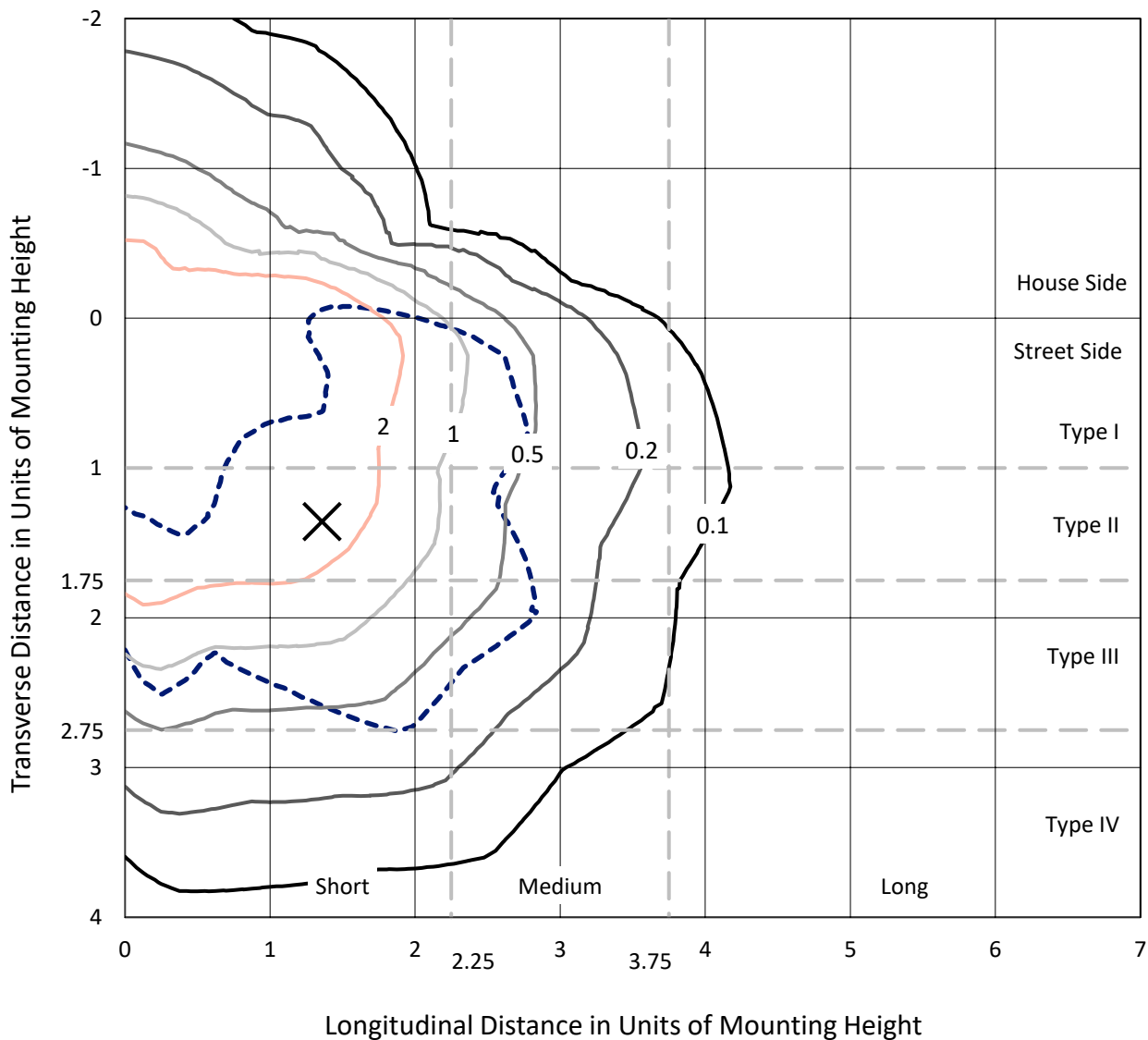
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

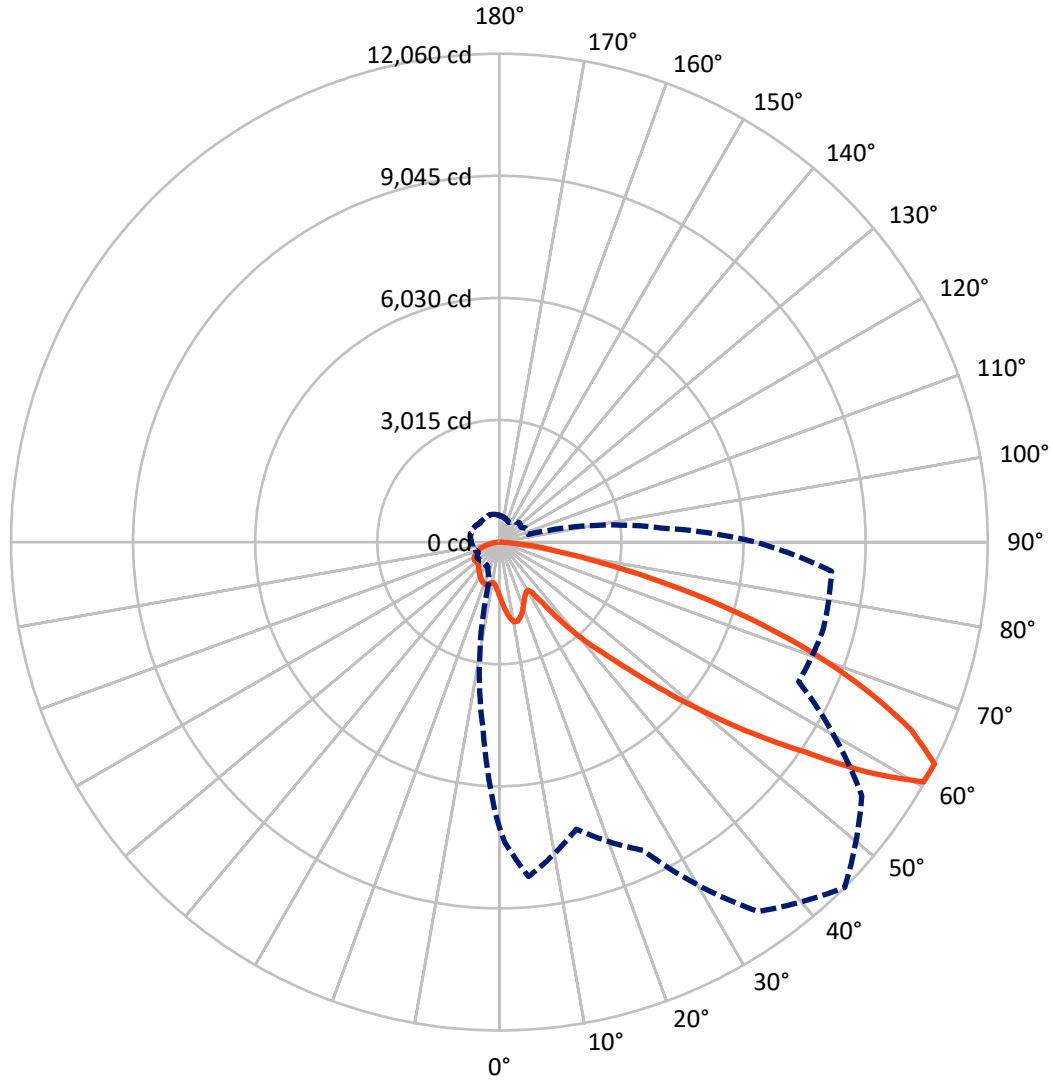
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2408.9	0.0	2408.9
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	7686.1	0.0	7686.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	10095.0	0.0	10095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	1.3
10°-20°	410.2	4.1
20°-30°	637.1	6.3
30°-40°	865.0	8.6
40°-50°	1371.0	13.6
50°-60°	2418.5	24.0
60°-70°	2690.9	26.7
70°-80°	1364.7	13.5
80°-90°	206.7	2.0
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°	10095.0	100.0
0°-180°	10095.0	100.0

Coefficient of Utilization



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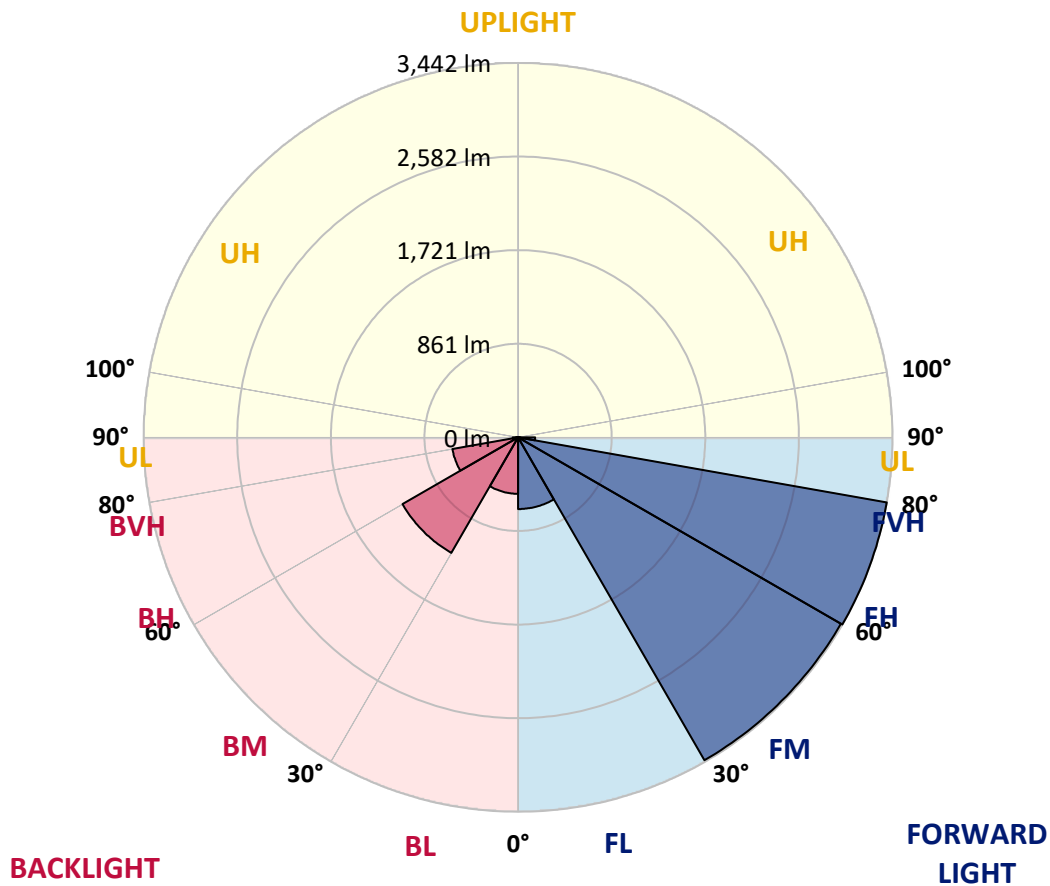
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.1	6.5			
FM (30°-60°)	3427.7	34.0			
FH (60°-80°)	3442.5	34.1			G2/5000
FVH (80°-90°)	156.9	1.6			G2/225
BL (0°-30°)	519.0	5.1	B2/1000		
BM (30°-60°)	1226.8	12.2	B2/2500		
BH (60°-80°)	613.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	49.8	0.5			G1/100
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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1439.9	1439.2	1453.7	1475.9	1496.5	1505.7	1521.0	1519.4	1507.2	1491.1	1485.8
5°	1553.1	1556.1	1581.3	1630.2	1684.5	1707.4	1717.4	1713.6	1691.4	1663.1	1613.4
7.5°	1655.5	1660.8	1699.8	1773.2	1840.4	1871.0	1895.5	1890.9	1858.8	1806.0	1732.7
10°	1730.4	1736.5	1783.1	1869.5	1944.4	1971.1	2002.5	2004.0	1975.7	1904.6	1829.7
12.5°	1805.3	1811.4	1854.9	1933.7	1982.6	1983.4	2001.7	2011.6	2013.2	1980.3	1905.4
15°	1883.2	1888.6	1928.3	1972.7	1970.4	1927.6	1927.6	1946.7	1988.7	2012.4	1960.4
17.5°	1949.7	1956.6	1987.2	1972.7	1904.6	1827.4	1818.3	1842.7	1916.1	2007.0	2001.7
20°	2004.8	2010.1	2026.9	1930.6	1806.8	1705.9	1688.3	1716.6	1816.0	1974.2	2033.0
22.5°	2057.5	2060.5	2051.4	1875.6	1701.3	1585.9	1564.5	1594.3	1701.3	1916.1	2059.8
25°	2120.2	2117.1	2073.5	1818.3	1605.0	1491.1	1469.0	1502.6	1614.2	1838.9	2088.8
27.5°	2192.8	2181.3	2092.6	1756.4	1530.9	1420.8	1405.5	1441.5	1545.4	1767.8	2111.8
30°	2254.7	2232.5	2095.7	1701.3	1492.7	1391.0	1381.8	1415.5	1511.8	1719.7	2140.8
32.5°	2323.5	2292.9	2113.3	1686.8	1514.1	1462.9	1475.1	1477.4	1521.0	1705.9	2184.4
35°	2422.1	2382.3	2161.4	1728.8	1734.2	1820.6	1864.9	1805.3	1659.3	1736.5	2266.9
37.5°	2571.1	2520.7	2259.3	1910.7	2188.9	2382.3	2489.3	2353.3	2079.7	1851.9	2391.5
40°	2752.2	2688.0	2384.6	2247.0	2613.9	2923.4	3113.7	2914.3	2512.2	2140.0	2566.5
42.5°	3005.2	2938.0	2627.7	2577.2	3007.5	3468.4	3716.8	3419.5	2893.6	2512.2	2847.0
45°	3446.2	3381.2	3073.2	2908.2	3468.4	4139.4	4488.0	4074.5	3281.1	2886.0	3371.3
47.5°	4261.0	4184.5	3735.1	3275.0	3994.2	5010.7	5498.4	4896.1	3683.9	3314.0	4251.8
50°	5239.3	5165.9	4565.9	3709.1	4575.1	5942.4	6620.3	5861.4	4147.8	3834.5	5304.2
52.5°	6416.3	6402.5	5751.3	4257.9	5179.6	6936.0	7865.4	6930.6	4656.1	4535.3	6496.5
55°	7477.1	7611.6	7257.0	5094.8	5960.8	8184.1	9145.6	8097.0	5345.5	5694.0	7892.9
57.5°	8048.8	8410.3	8955.3	6802.2	7096.5	9676.0	10725.4	9520.8	6530.2	7623.1	9187.6
60°	7671.2	8080.9	9068.4	8087.8	8223.1	10871.4	12029.3	10717.7	7693.4	8962.1	9114.2
62.5°	7043.0	7410.6	8288.8	7337.3	8397.3	11134.3	12059.8	10926.4	8155.8	8282.7	8233.0
65°	6297.8	6668.5	7598.6	6404.8	7843.2	10509.8	11170.2	10312.7	7325.0	7483.2	7501.6
67.5°	5308.0	5650.4	6597.4	5694.8	7149.2	9593.5	9804.4	9438.3	6745.7	6997.9	6734.2
70°	3965.9	4274.7	5110.9	4627.8	6026.5	8399.6	8229.2	8283.5	6095.3	6346.0	5625.2
72.5°	2710.2	2942.5	3659.5	3636.5	4614.8	6724.3	6486.6	7001.0	5091.0	5423.5	4288.5
75°	1895.5	2076.6	2645.2	2873.0	3488.3	4984.0	4619.4	5240.0	3975.9	4450.5	3129.0
77.5°	1163.3	1283.3	1670.8	2128.6	2244.0	3411.1	2869.2	3943.0	2792.0	3246.0	2087.3
80°	581.6	639.7	811.7	1338.3	1488.1	2010.1	1584.4	2289.1	1889.3	2010.1	1154.9
82.5°	175.8	194.1	237.7	508.3	771.2	1157.1	936.3	1329.9	1031.8	942.4	454.8
85°	46.6	52.7	65.7	150.6	270.6	415.0	316.4	644.3	494.5	347.8	171.2
87.5°	3.8	3.8	3.1	3.1	1.5	0.0	0.0	45.9	92.5	52.7	29.8
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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1459.0	1456.0	1424.6	1401.7	1375.0	1349.0	1322.2	1298.5	1271.8	1245.0	1237.4
5°	1576.7	1555.3	1488.9	1433.1	1378.0	1329.9	1287.8	1244.3	1209.1	1174.7	1161.7
7.5°	1680.7	1643.2	1546.9	1462.1	1385.7	1326.1	1264.1	1200.7	1151.0	1102.1	1089.9
10°	1774.7	1725.0	1603.5	1496.5	1411.7	1343.6	1271.0	1186.2	1114.3	1054.7	1038.7
12.5°	1844.2	1790.0	1652.4	1529.4	1433.1	1356.6	1284.8	1209.9	1134.2	1057.0	1039.4
15°	1899.3	1842.7	1692.9	1554.6	1433.8	1335.2	1265.7	1239.7	1216.0	1140.3	1108.2
17.5°	1943.6	1884.0	1728.1	1569.9	1413.2	1270.3	1209.9	1248.1	1308.5	1261.1	1200.7
20°	1984.1	1923.7	1754.8	1580.6	1367.3	1180.8	1147.2	1228.2	1319.2	1317.6	1263.4
22.5°	2028.4	1969.6	1793.8	1586.7	1303.1	1089.9	1109.8	1199.2	1273.3	1295.5	1261.9
25°	2085.0	2033.0	1848.1	1600.4	1230.5	1027.2	1082.2	1161.7	1223.6	1229.0	1209.1
27.5°	2150.7	2111.8	1929.1	1632.5	1160.2	995.1	1050.1	1109.0	1165.6	1167.8	1144.2
30°	2222.6	2196.6	2004.0	1659.3	1107.5	985.2	1008.9	1056.3	1092.2	1098.3	1077.7
32.5°	2314.3	2291.4	2070.5	1641.7	1076.1	982.9	970.7	995.1	1024.9	1024.9	1008.9
35°	2440.4	2408.3	2140.8	1574.5	1037.9	973.7	930.1	937.0	950.0	952.3	943.1
37.5°	2619.2	2566.5	2211.9	1441.5	975.2	940.8	883.5	875.1	879.7	885.8	883.5
40°	2840.9	2754.5	2315.8	1281.7	900.3	877.4	835.4	819.3	815.5	827.7	832.3
42.5°	3119.9	2987.6	2427.4	1132.7	832.3	804.8	778.8	765.1	758.9	779.6	791.8
45°	3565.4	3347.6	2534.4	985.2	794.1	742.9	725.3	715.4	718.4	742.9	758.2
47.5°	4335.1	3897.2	2636.1	891.9	791.0	698.6	677.2	679.5	687.9	713.9	732.2
50°	5308.8	4633.2	2704.1	853.0	800.2	671.8	643.5	655.8	668.8	694.0	715.4
52.5°	6300.1	5318.7	2623.1	831.6	799.5	672.6	612.2	648.9	655.0	680.2	703.2
55°	6981.9	5395.2	2266.1	798.7	787.2	703.2	587.7	645.8	649.7	672.6	693.2
57.5°	7241.7	5133.8	1728.1	807.9	750.5	726.8	577.0	624.4	651.9	671.8	693.2
60°	6927.6	4640.8	1050.1	831.6	691.7	725.3	583.9	585.5	632.8	666.5	687.9
62.5°	6335.3	4008.0	737.5	764.3	648.9	684.8	600.0	539.6	599.2	639.7	658.8
65°	5656.6	3263.5	562.5	658.1	628.3	622.1	605.3	499.1	553.4	593.1	609.9
67.5°	4949.6	2536.7	457.0	490.7	567.9	562.5	553.4	463.2	499.1	527.4	546.5
70°	4059.2	1774.7	386.0	368.4	486.9	504.4	483.8	418.1	429.5	458.6	473.9
72.5°	2969.3	1105.9	317.2	304.2	391.3	441.0	430.3	368.4	373.7	401.3	413.5
75°	2135.4	632.8	254.5	250.7	298.8	377.6	356.2	317.2	323.3	343.9	352.3
77.5°	1357.4	352.3	196.4	201.8	214.0	282.0	304.2	271.3	271.3	283.6	290.4
80°	726.8	201.8	143.7	146.0	149.8	215.5	240.0	210.2	210.2	201.8	210.2
82.5°	296.5	116.2	98.6	91.7	100.1	147.5	168.1	133.8	139.9	126.1	129.2
85°	97.8	58.1	48.9	48.2	47.4	65.0	81.0	66.5	79.5	50.4	52.7
87.5°	13.0	10.7	6.1	4.6	5.4	2.3	4.6	5.4	5.4	3.8	3.8
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°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1232.0	1225.9	1203.8	1209.1	1205.3	1199.2	1205.3	1193.8	1203.0	1206.1	1225.2
5°	1151.8	1137.3	1115.9	1105.2	1102.9	1096.8	1097.5	1092.2	1093.7	1106.7	1128.1
7.5°	1080.0	1066.2	1049.4	1041.7	1034.9	1028.0	1027.2	1026.5	1032.6	1044.0	1064.7
10°	1028.0	1020.3	1013.5	1016.5	1013.5	1010.4	1005.1	1005.1	1015.0	1035.6	1060.8
12.5°	1028.0	1026.5	1028.0	1037.2	1036.4	1037.2	1030.3	1034.1	1061.6	1096.8	1132.7
15°	1083.0	1070.8	1070.8	1075.4	1073.8	1073.8	1073.8	1089.9	1152.6	1206.8	1245.0
17.5°	1150.3	1114.3	1099.1	1096.8	1096.0	1096.0	1099.1	1133.5	1231.3	1288.6	1310.8
20°	1196.9	1128.9	1103.6	1093.7	1094.5	1096.0	1105.2	1152.6	1260.3	1289.4	1284.0
22.5°	1205.3	1117.4	1086.8	1072.3	1074.6	1076.1	1089.9	1140.3	1220.6	1225.2	1214.5
25°	1166.3	1085.3	1052.4	1041.0	1044.0	1043.3	1055.5	1092.2	1149.5	1148.0	1141.9
27.5°	1108.2	1034.1	1009.6	1002.0	1007.3	1001.2	1005.1	1033.3	1077.7	1076.1	1073.8
30°	1048.6	984.4	962.2	958.4	965.3	956.1	956.9	980.6	1011.2	1009.6	1008.9
32.5°	989.0	934.7	914.9	914.9	921.7	911.8	913.3	934.0	954.6	948.5	948.5
35°	932.4	894.2	878.2	875.1	880.5	873.6	876.6	895.8	903.4	895.0	889.6
37.5°	882.8	865.9	849.9	839.2	840.0	840.7	849.9	864.4	859.8	847.6	840.7
40°	836.9	836.9	821.6	801.7	799.5	804.8	820.1	836.1	823.1	809.4	801.0
42.5°	804.0	810.9	796.4	776.5	771.9	781.1	797.9	809.4	794.1	778.8	767.4
45°	773.5	790.3	780.3	758.2	752.1	762.8	784.2	788.8	768.1	753.6	745.2
47.5°	752.1	775.0	768.1	746.7	737.5	752.8	775.0	774.2	748.2	733.0	726.1
50°	736.8	765.8	765.1	746.7	736.8	755.9	775.8	765.8	737.5	721.5	714.6
52.5°	724.6	765.1	770.4	759.7	752.8	769.6	781.9	762.8	729.9	713.1	707.7
55°	719.2	768.1	771.9	762.0	755.9	771.2	781.9	768.9	729.9	714.6	710.0
57.5°	720.7	764.3	765.1	751.3	740.6	759.7	776.5	772.7	738.3	720.7	715.4
60°	711.6	743.7	745.2	723.8	711.6	734.5	764.3	762.0	734.5	716.1	706.2
62.5°	681.0	709.3	710.0	690.2	672.6	705.4	738.3	737.5	712.3	694.0	682.5
65°	629.8	659.6	667.2	648.1	634.4	669.5	703.9	702.4	677.2	660.4	648.9
67.5°	566.3	598.4	613.0	600.0	594.6	626.7	658.8	658.1	637.4	621.4	611.4
70°	489.2	515.9	540.4	540.4	536.5	573.2	607.6	604.6	585.5	573.2	565.6
72.5°	424.9	445.6	453.2	460.9	472.3	510.6	539.6	541.9	528.1	522.0	528.1
75°	361.5	374.5	381.4	375.3	395.1	434.9	473.1	476.9	462.4	452.5	454.8
77.5°	297.3	311.8	318.7	305.0	303.4	353.9	400.5	408.9	396.7	381.4	386.0
80°	214.8	233.9	245.3	236.2	233.1	255.3	319.5	328.6	317.2	305.0	311.8
82.5°	131.5	142.2	145.2	154.4	173.5	182.7	205.6	236.2	227.8	217.1	236.2
85°	52.0	61.9	68.8	78.0	91.0	107.8	126.9	151.3	137.6	133.0	156.7
87.5°	3.1	0.8	0.0	1.5	13.0	25.2	54.3	74.9	62.7	67.3	81.0
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-SA4B-722-U-SLR-W

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1240.5	1260.3	1287.1	1309.2	1337.5	1364.3	1391.8	1419.3	1433.8	1439.9
5°	1152.6	1189.2	1232.0	1279.4	1334.5	1392.5	1451.4	1511.8	1550.0	1553.1
7.5°	1099.8	1152.6	1211.4	1271.0	1339.0	1419.3	1512.5	1605.8	1644.8	1655.5
10°	1116.6	1175.5	1222.1	1277.9	1352.8	1452.9	1563.0	1672.3	1717.4	1730.4
12.5°	1183.9	1195.4	1209.9	1261.1	1352.8	1482.0	1615.0	1744.9	1793.0	1805.3
15°	1239.7	1184.7	1158.7	1212.9	1334.5	1507.2	1670.0	1813.7	1871.8	1883.2
17.5°	1244.3	1149.5	1092.9	1141.9	1302.4	1524.8	1722.7	1890.1	1939.0	1949.7
20°	1197.7	1112.1	1038.7	1068.5	1258.8	1532.4	1760.9	1945.9	1994.1	2004.8
22.5°	1144.9	1081.5	1002.0	1000.5	1206.1	1540.8	1806.8	1998.6	2050.6	2057.5
25°	1095.2	1039.4	972.2	950.8	1144.9	1556.9	1868.7	2078.1	2117.9	2120.2
27.5°	1037.2	994.4	948.5	927.9	1091.4	1587.4	1960.4	2172.9	2196.6	2192.8
30°	984.4	952.3	931.7	925.6	1057.8	1610.4	2047.6	2266.1	2267.7	2254.7
32.5°	928.6	916.4	916.4	936.3	1030.3	1605.0	2118.6	2357.1	2342.6	2323.5
35°	878.9	881.2	897.3	943.9	984.4	1551.5	2186.7	2471.0	2449.6	2422.1
37.5°	831.6	849.1	872.1	917.2	924.0	1472.0	2266.1	2632.2	2605.5	2571.1
40°	791.0	817.8	844.5	866.7	859.8	1358.9	2377.0	2821.8	2792.0	2752.2
42.5°	758.9	784.9	814.7	817.0	819.3	1241.2	2494.7	3054.1	3048.8	3005.2
45°	738.3	755.1	783.4	779.6	817.0	1111.3	2603.2	3408.8	3479.1	3446.2
47.5°	724.6	737.5	740.6	756.7	836.9	995.1	2743.1	4102.7	4298.4	4261.0
50°	716.9	729.9	695.5	758.2	840.0	920.2	2936.4	4974.0	5288.9	5239.3
52.5°	716.1	713.1	661.1	774.2	823.1	874.4	3037.3	5609.9	6308.5	6416.3
55°	717.7	679.5	643.5	778.8	789.5	857.5	2699.5	5915.7	7249.4	7477.1
57.5°	703.9	642.8	653.5	760.5	726.1	902.6	1995.6	5806.4	7625.4	8048.8
60°	677.9	607.6	671.8	710.8	661.1	825.4	1374.2	5318.7	7235.6	7671.2
62.5°	640.5	583.2	669.5	646.6	637.4	675.6	944.7	4636.2	6617.3	7043.0
65°	598.4	563.3	633.6	584.7	590.0	519.7	668.0	3865.8	5879.0	6297.8
67.5°	553.4	551.1	580.9	520.5	498.3	412.0	486.9	3098.5	4930.5	5308.0
70°	502.1	519.0	528.1	462.4	404.3	323.3	361.5	2166.8	3637.3	3965.9
72.5°	450.9	452.5	465.5	402.0	302.7	259.1	271.3	1312.3	2471.0	2710.2
75°	399.0	384.4	396.7	327.1	225.5	212.5	209.4	810.9	1706.7	1895.5
77.5°	343.2	327.1	311.1	246.1	181.1	164.3	160.5	454.8	1047.1	1163.3
80°	279.0	257.6	232.3	180.4	132.2	117.7	116.9	221.6	522.0	581.6
82.5°	217.1	176.6	169.7	112.4	81.8	71.8	76.4	84.8	157.4	175.8
85°	152.1	128.4	90.2	45.1	36.7	29.8	29.0	25.2	42.0	46.6
87.5°	84.8	55.8	29.0	5.4	6.1	6.9	5.4	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)