

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: P636554

Luminaire Tested: GWS-SA4B-722-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636554
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-SA4B-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: 5717 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

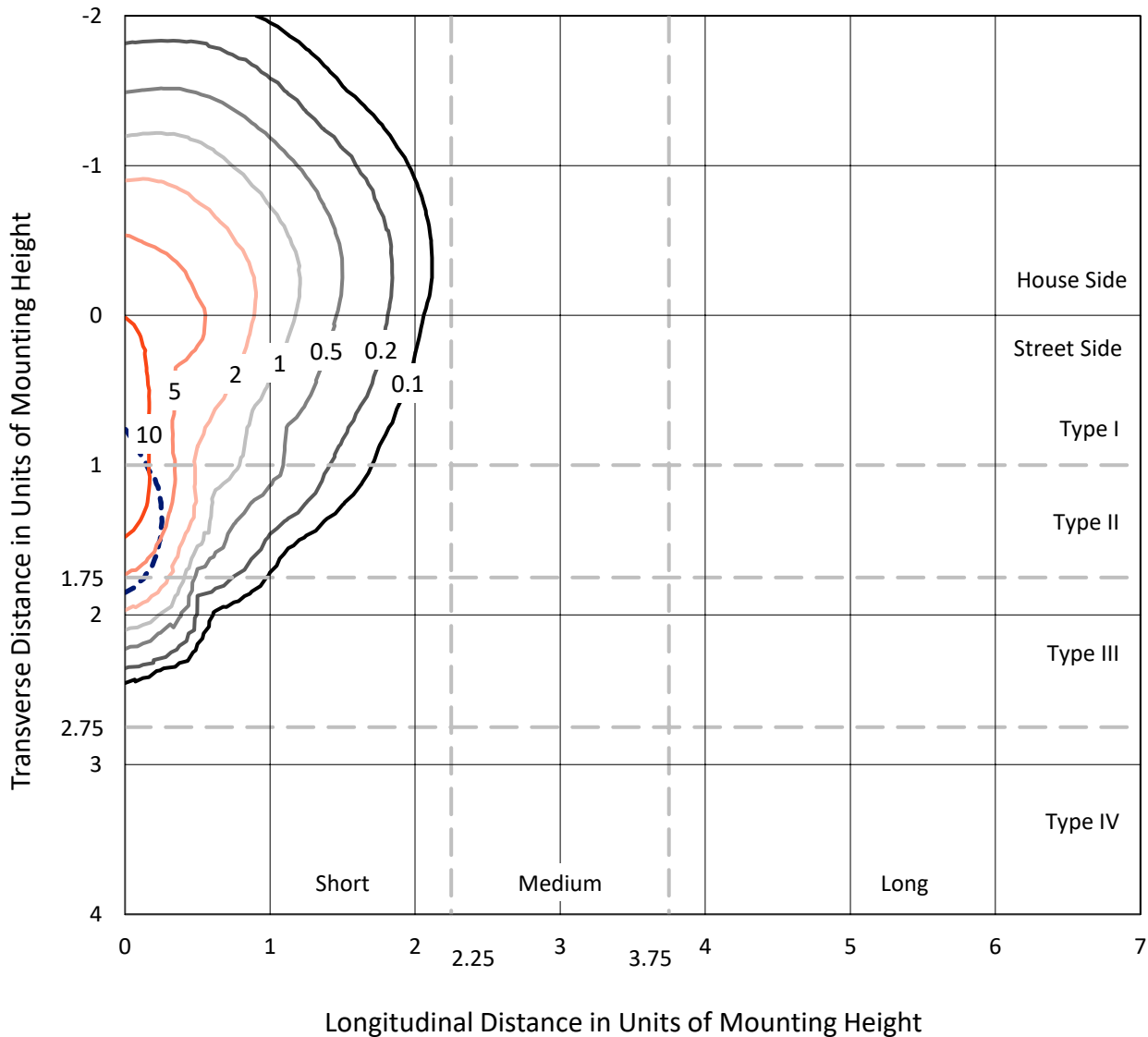
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

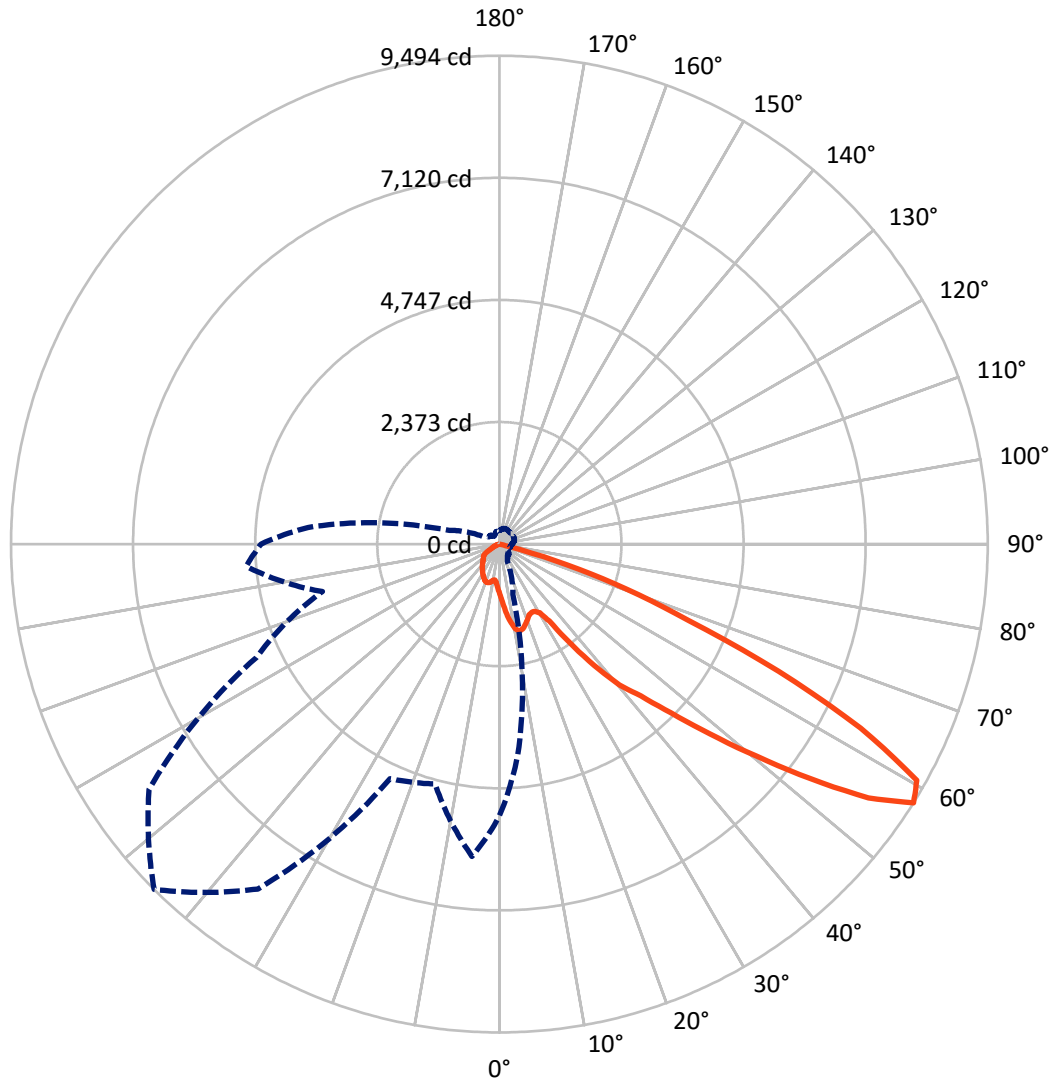
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 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	1231.6	0.0	1231.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	4485.4	0.0	4485.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	5717.0	0.0	5717.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.7
10°-20°	315.9	5.5
20°-30°	512.7	9.0
30°-40°	786.9	13.8
40°-50°	1256.7	22.0
50°-60°	1759.6	30.8
60°-70°	902.2	15.8
70°-80°	86.9	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°	5717.0	100.0
0°-180°	5717.0	100.0

Coefficient of Utilization



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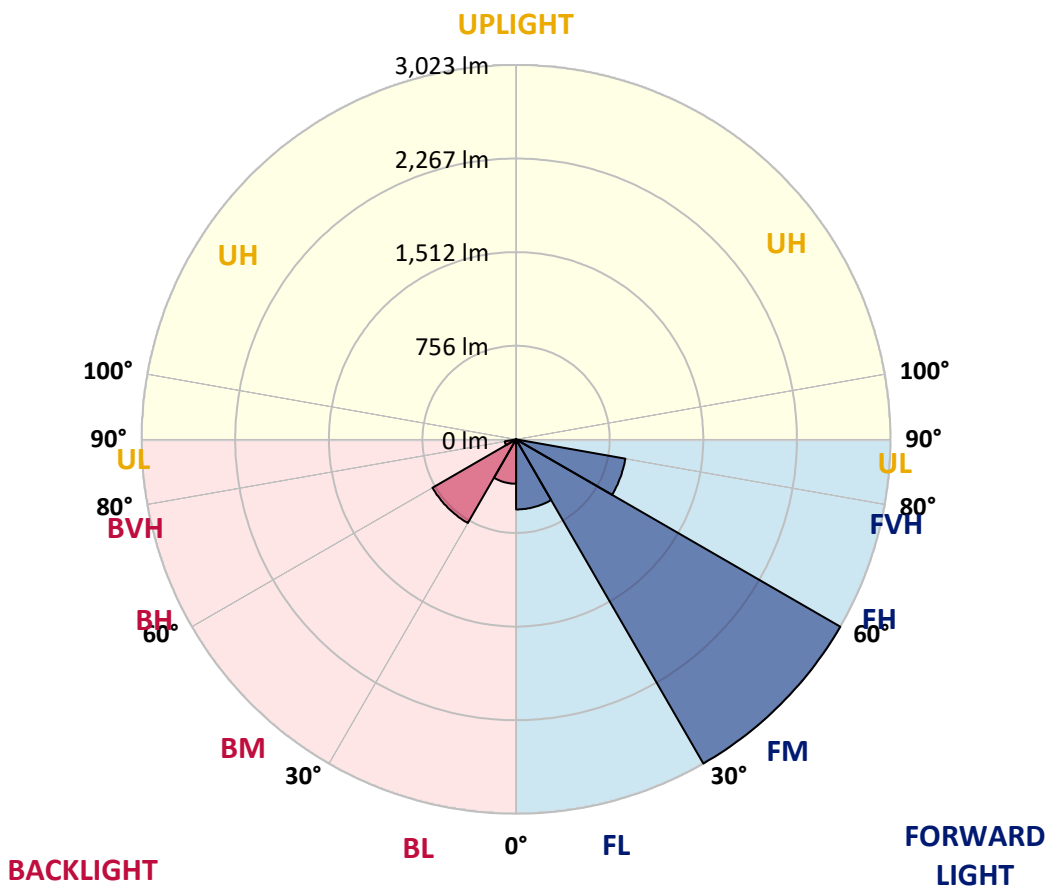
CATALOG NUMBER: GWS-SA4B-722-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.0	9.9			
FM (30°-60°)	3023.3	52.9			
FH (60°-80°)	896.1	15.7			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	358.6	6.3	B1/500		
BM (30°-60°)	780.0	13.6	B1/1000		
BH (60°-80°)	93.0	1.6	B0/110		G0/110
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: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4
2.5°	1079.2	1076.9	1069.2	1043.2	1027.2	1002.0	983.6	959.9	934.0	917.9	901.9
5°	1193.8	1187.7	1167.1	1107.4	1061.6	1011.9	972.2	928.6	882.0	851.4	823.1
7.5°	1303.9	1294.7	1267.2	1166.3	1096.7	1025.7	969.1	905.7	839.9	794.1	758.9
10°	1411.6	1391.0	1347.4	1223.6	1129.6	1044.0	977.5	904.9	827.7	769.6	730.7
12.5°	1500.3	1485.0	1425.4	1277.9	1157.1	1047.8	966.1	898.8	846.8	807.8	771.9
15°	1576.7	1559.9	1503.3	1326.8	1180.8	1032.5	917.9	859.1	867.5	882.7	852.2
17.5°	1647.0	1629.5	1568.3	1367.3	1190.0	995.1	850.6	822.4	869.0	926.3	914.8
20°	1719.6	1699.8	1624.9	1400.2	1186.9	936.2	782.6	791.0	856.8	922.5	928.6
22.5°	1804.5	1783.8	1696.7	1442.2	1184.6	865.9	723.8	763.5	833.8	889.6	900.3
25°	1916.8	1892.4	1796.8	1504.1	1190.8	801.7	681.7	736.8	794.9	845.3	851.4
27.5°	2065.1	2033.8	1912.2	1580.5	1203.7	751.3	663.4	700.1	745.2	790.3	795.6
30°	2258.5	2218.7	2044.5	1647.0	1197.6	716.1	651.2	663.4	690.1	726.8	727.6
32.5°	2484.7	2430.4	2192.7	1704.3	1144.9	690.1	634.4	625.9	632.1	660.3	665.7
35°	2750.7	2680.3	2356.3	1758.6	1048.6	639.7	603.8	575.5	573.2	587.0	600.0
37.5°	3055.6	2971.5	2562.6	1828.2	934.7	587.0	558.7	530.4	518.2	525.1	544.9
40°	3336.9	3243.6	2778.2	1912.2	818.5	539.6	506.0	476.9	462.4	464.7	489.1
42.5°	3667.0	3570.7	3041.8	2022.3	722.2	507.5	450.9	421.1	402.0	412.7	441.0
45°	4168.4	4059.1	3426.3	2117.8	645.8	499.8	402.8	360.7	351.6	369.9	403.5
47.5°	4853.2	4719.4	3954.4	2175.9	580.9	506.7	369.1	311.8	314.1	334.8	368.4
50°	5532.6	5388.2	4565.1	2099.5	527.4	493.0	352.3	273.6	288.1	306.5	337.0
52.5°	5999.6	5811.6	4862.4	1878.6	478.4	441.0	350.8	237.7	265.2	271.3	297.3
55°	6018.0	5786.4	4710.3	1481.2	411.9	372.2	334.8	207.9	240.0	242.3	264.4
57.5°	5275.1	5065.7	4116.4	1017.3	366.1	272.8	266.7	181.9	197.2	216.3	230.0
60°	4013.2	3835.2	3078.5	466.2	278.2	173.5	182.7	156.7	147.5	175.8	189.5
62.5°	2457.9	2344.1	1846.5	206.4	177.3	92.5	110.8	124.6	110.8	121.5	133.0
65°	976.0	925.5	700.8	87.9	72.6	46.6	50.4	72.6	78.0	85.6	96.3
67.5°	169.7	160.5	117.7	39.0	29.8	28.3	24.5	33.6	47.4	52.7	61.1
70°	22.2	21.4	19.1	16.0	15.3	13.8	10.7	21.4	32.1	33.6	39.0
72.5°	5.3	4.6	4.6	3.8	4.6	1.5	1.5	11.5	22.9	23.7	27.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	14.5	16.0	19.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4
2.5°	888.9	873.6	868.2	860.6	850.6	853.7	839.9	835.4	842.2	851.4	849.1
5°	807.8	791.0	779.6	762.0	758.9	752.1	747.5	741.4	749.0	759.7	762.0
7.5°	743.6	729.1	717.7	712.3	708.5	705.4	696.3	691.7	691.7	696.3	700.1
10°	716.1	705.4	703.1	704.7	710.8	710.0	701.6	695.5	687.9	684.0	688.6
12.5°	754.3	736.8	733.7	734.5	742.1	741.4	732.2	724.5	723.0	724.5	739.1
15°	819.3	792.6	772.7	768.9	772.7	771.2	764.3	759.7	762.0	784.2	808.6
17.5°	877.4	836.1	800.2	786.4	785.7	783.4	776.5	775.0	786.4	827.7	863.6
20°	894.2	853.7	802.5	784.9	781.1	778.8	771.2	773.5	788.0	837.7	868.2
22.5°	872.0	833.1	779.6	762.0	758.9	758.2	750.5	753.6	765.8	809.4	834.6
25°	830.0	797.1	741.4	726.1	726.1	724.5	717.7	719.2	726.8	765.0	789.5
27.5°	778.8	747.5	700.8	685.6	687.9	690.1	681.7	679.4	685.6	721.5	736.0
30°	720.0	697.8	661.1	647.3	646.6	655.8	644.3	641.2	649.6	677.9	681.0
32.5°	662.6	651.9	625.9	615.2	616.0	617.5	611.4	611.4	619.1	634.4	633.6
35°	606.8	600.0	595.4	587.7	587.0	583.9	583.9	585.4	593.8	599.2	589.3
37.5°	553.3	560.2	565.6	557.9	551.8	551.8	551.8	558.7	566.3	564.0	547.2
40°	506.0	520.5	537.3	528.9	514.4	513.6	516.7	528.1	539.6	525.8	510.5
42.5°	465.4	483.8	507.5	502.9	486.8	484.6	486.8	501.4	510.5	493.0	476.1
45°	425.7	448.6	476.9	476.9	459.3	457.0	457.8	476.9	482.3	461.6	440.2
47.5°	392.1	417.3	447.1	447.1	432.6	428.0	431.8	451.7	455.5	426.5	406.6
50°	360.0	387.5	420.4	418.1	408.1	404.3	411.2	432.6	428.0	395.9	375.3
52.5°	319.5	348.5	393.6	395.9	390.5	391.3	399.7	413.5	400.5	361.5	343.9
55°	282.8	312.6	357.7	369.9	369.9	369.1	373.0	383.7	373.0	326.3	304.9
57.5°	243.0	268.3	305.7	308.8	311.1	302.7	308.0	322.5	317.2	277.4	265.2
60°	199.5	220.9	242.3	244.6	234.6	217.1	227.0	243.8	247.6	217.8	204.1
62.5°	141.4	162.0	187.2	187.2	177.3	159.7	172.7	187.2	181.9	151.3	142.9
65°	105.5	124.6	143.7	152.1	143.7	131.5	141.4	152.1	143.7	118.5	106.2
67.5°	68.0	81.0	92.5	99.4	100.9	99.4	103.9	100.9	90.9	74.1	67.3
70°	41.3	48.1	54.3	60.4	65.0	67.3	69.5	62.7	52.7	43.6	41.3
72.5°	29.8	35.9	41.3	45.9	51.2	52.7	52.7	48.1	39.0	30.6	28.3
75°	20.6	26.0	30.6	33.6	38.2	39.7	39.7	35.9	29.0	22.2	19.9
77.5°	0.8	5.3	5.3	4.6	6.1	7.6	7.6	9.2	8.4	6.1	5.3
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°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4
2.5°	853.7	881.2	888.9	917.1	942.4	967.6	998.2	1016.5	1044.0	1063.1	1073.8
5°	769.6	792.6	820.1	862.1	905.7	953.8	1011.9	1062.4	1125.8	1172.4	1187.7
7.5°	708.5	738.3	770.4	823.1	882.7	946.9	1028.7	1111.3	1208.3	1271.8	1312.3
10°	697.0	727.6	770.4	822.4	885.0	958.4	1058.5	1165.5	1287.1	1364.2	1410.1
12.5°	752.1	784.9	803.3	827.0	874.3	956.1	1084.5	1220.6	1363.5	1447.6	1496.5
15°	833.1	862.1	832.3	802.5	833.1	931.7	1099.0	1266.4	1430.7	1527.8	1578.2
17.5°	888.9	891.2	826.2	762.8	771.2	887.3	1104.4	1312.3	1502.6	1604.2	1657.0
20°	883.5	865.2	799.4	729.1	703.1	830.0	1098.3	1352.8	1575.2	1681.4	1733.4
22.5°	842.2	820.8	765.0	696.3	645.8	762.0	1087.6	1389.5	1641.7	1762.4	1811.3
25°	792.6	769.6	723.8	663.4	609.1	696.3	1079.2	1439.9	1725.7	1867.9	1906.1
27.5°	734.5	714.6	675.6	632.1	593.8	646.6	1076.9	1506.4	1827.4	1996.3	2023.1
30°	677.9	659.6	629.0	603.8	587.7	617.5	1069.2	1577.5	1948.9	2143.8	2172.9
32.5°	623.7	605.3	586.2	582.4	583.1	606.8	1043.2	1647.8	2093.4	2357.8	2379.2
35°	577.0	555.6	548.0	557.2	574.0	588.5	969.9	1705.9	2248.5	2590.9	2608.5
37.5°	532.7	511.3	510.5	532.7	551.0	560.2	883.5	1763.2	2457.9	2827.8	2850.0
40°	492.2	470.8	478.4	505.2	519.7	524.3	778.8	1850.3	2679.6	3077.8	3065.5
42.5°	457.8	435.6	440.2	474.6	487.6	499.8	682.5	1922.9	2892.8	3314.7	3310.9
45°	424.2	407.4	404.3	441.8	453.2	502.1	612.2	1978.7	3167.2	3616.6	3622.7
47.5°	391.3	378.3	379.1	395.1	423.4	513.6	552.6	2015.4	3565.4	4095.0	3988.8
50°	361.5	351.6	360.0	341.6	404.3	499.1	501.4	2007.8	4010.2	4553.6	4340.4
52.5°	328.6	326.3	330.2	285.8	373.7	440.2	453.2	1906.1	4218.8	4867.0	4745.4
55°	295.0	294.2	263.7	228.5	312.6	351.6	388.3	1590.5	4212.0	5033.6	5181.1
57.5°	255.3	249.2	200.2	186.5	243.0	244.6	353.9	1041.7	3732.8	4634.6	4940.3
60°	193.4	188.8	146.7	151.3	169.7	156.7	282.0	518.9	2789.6	3610.5	3955.2
62.5°	133.7	127.6	109.3	116.9	109.3	89.4	172.7	256.8	1689.8	2279.9	2592.4
65°	97.8	90.9	74.9	64.2	51.2	51.2	65.7	98.6	654.2	969.1	1168.6
67.5°	60.4	57.3	44.3	32.1	31.3	33.6	34.4	48.9	105.5	168.1	205.6
70°	39.0	35.9	29.8	20.6	19.1	19.9	20.6	22.9	26.7	29.0	35.2
72.5°	26.7	25.2	21.4	11.5	9.2	9.9	10.7	10.7	13.0	12.2	14.5
75°	19.1	17.6	15.3	5.3	3.1	3.8	4.6	3.8	4.6	3.1	3.8
77.5°	5.3	5.3	3.8	0.8	0.0	0.8	1.5	1.5	0.8	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	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



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CATALOG NUMBER: GWS-SA4B-722-U-SLL-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4	971.4
2.5°	1101.3	1118.9	1125.8	1115.9	1124.3	1110.5	1105.2	1084.5	1083.0	1079.2
5°	1249.6	1289.3	1313.0	1327.6	1310.7	1292.4	1264.9	1217.5	1203.0	1193.8
7.5°	1395.6	1457.5	1498.0	1517.1	1512.5	1475.1	1425.4	1345.9	1317.6	1303.9
10°	1522.5	1598.1	1647.0	1670.7	1660.8	1627.9	1556.8	1457.5	1420.0	1411.6
12.5°	1611.1	1680.7	1714.3	1734.9	1735.7	1722.7	1655.4	1555.3	1511.0	1500.3
15°	1666.9	1696.7	1697.5	1709.7	1731.1	1760.1	1728.8	1640.2	1592.8	1576.7
17.5°	1702.1	1669.2	1635.6	1638.6	1673.8	1751.0	1783.1	1715.0	1664.6	1647.0
20°	1727.3	1623.3	1560.7	1561.4	1597.4	1714.3	1820.5	1787.7	1735.7	1719.6
22.5°	1743.3	1582.8	1493.4	1491.1	1529.3	1670.7	1854.9	1874.0	1822.8	1804.5
25°	1776.2	1563.7	1452.9	1465.9	1499.5	1657.0	1901.5	1988.7	1941.3	1916.8
27.5°	1835.0	1582.8	1449.1	1478.9	1517.1	1697.5	1982.5	2141.5	2092.6	2065.1
30°	1936.7	1654.7	1507.9	1549.2	1595.1	1803.7	2118.6	2354.8	2284.4	2258.5
32.5°	2100.2	1803.7	1689.8	1778.5	1822.8	1978.0	2322.7	2594.0	2536.7	2484.7
35°	2325.7	2143.8	2130.8	2337.2	2326.5	2308.1	2573.3	2887.5	2801.1	2750.7
37.5°	2636.0	2691.0	2787.3	2992.2	2985.3	2845.4	2902.7	3164.9	3120.6	3055.6
40°	3023.5	3140.4	3304.0	3597.5	3505.8	3330.0	3307.1	3449.2	3413.3	3336.9
42.5°	3252.0	3453.8	3765.6	4029.3	3955.9	3648.7	3622.7	3829.1	3750.3	3667.0
45°	3358.3	3709.1	4320.5	4677.4	4455.0	3860.4	3850.5	4324.3	4280.0	4168.4
47.5°	3407.2	3966.6	4970.1	5510.5	5094.7	4046.1	4010.2	5042.7	4984.7	4853.2
50°	3461.4	4322.0	5752.8	6475.8	5867.4	4256.3	4282.3	5712.2	5687.8	5532.6
52.5°	3580.7	4698.0	6716.5	7579.4	6804.4	4585.7	4749.3	6343.5	6178.5	5999.6
55°	3759.5	5107.7	7719.3	8706.7	7760.5	5028.2	5254.4	6679.1	6215.9	6018.0
57.5°	3561.6	5210.1	8313.1	9493.9	8184.7	5029.7	4827.2	6097.4	5466.9	5275.1
60°	2826.3	4847.1	8084.6	9323.5	7823.2	4466.5	3696.1	4760.7	4141.6	4013.2
62.5°	1910.7	4065.2	7117.0	7885.1	6695.9	3513.4	2402.1	3096.1	2564.2	2457.9
65°	1047.1	3032.7	5750.5	5965.2	5240.7	2454.1	1235.8	1343.6	1023.4	976.0
67.5°	288.9	2110.9	4231.1	3957.5	3677.0	1598.1	319.5	240.0	171.2	169.7
70°	72.6	1396.3	2535.1	2613.1	2254.6	1023.4	61.1	29.0	22.9	22.2
72.5°	30.6	600.7	1203.0	1382.6	1154.1	473.9	22.2	8.4	6.9	5.3
75°	3.8	48.1	102.4	155.1	106.2	51.2	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

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