

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: P639033

Luminaire Tested: GWS-SA5B-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639033
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-SA5B-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: 6977.5 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

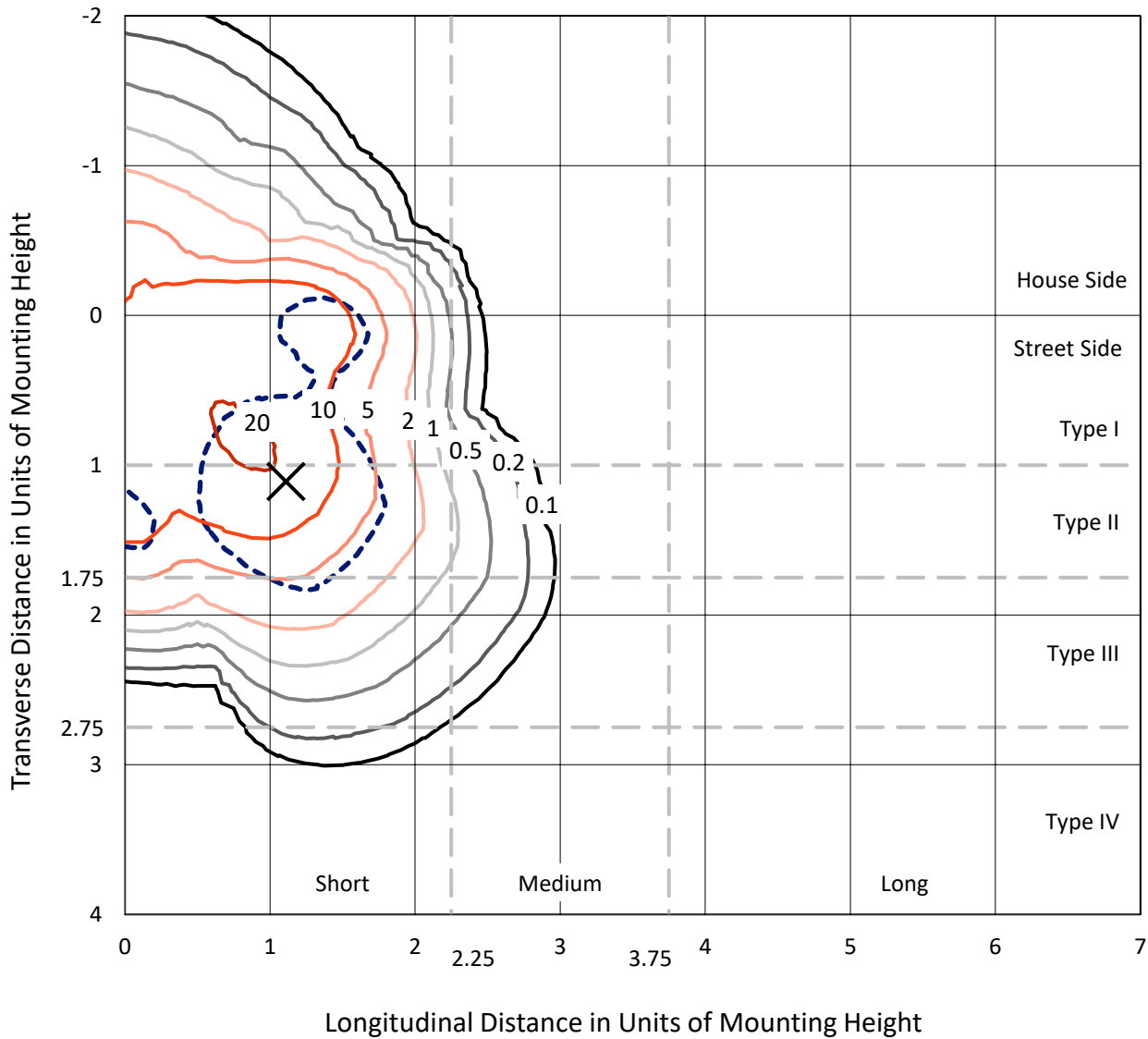
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

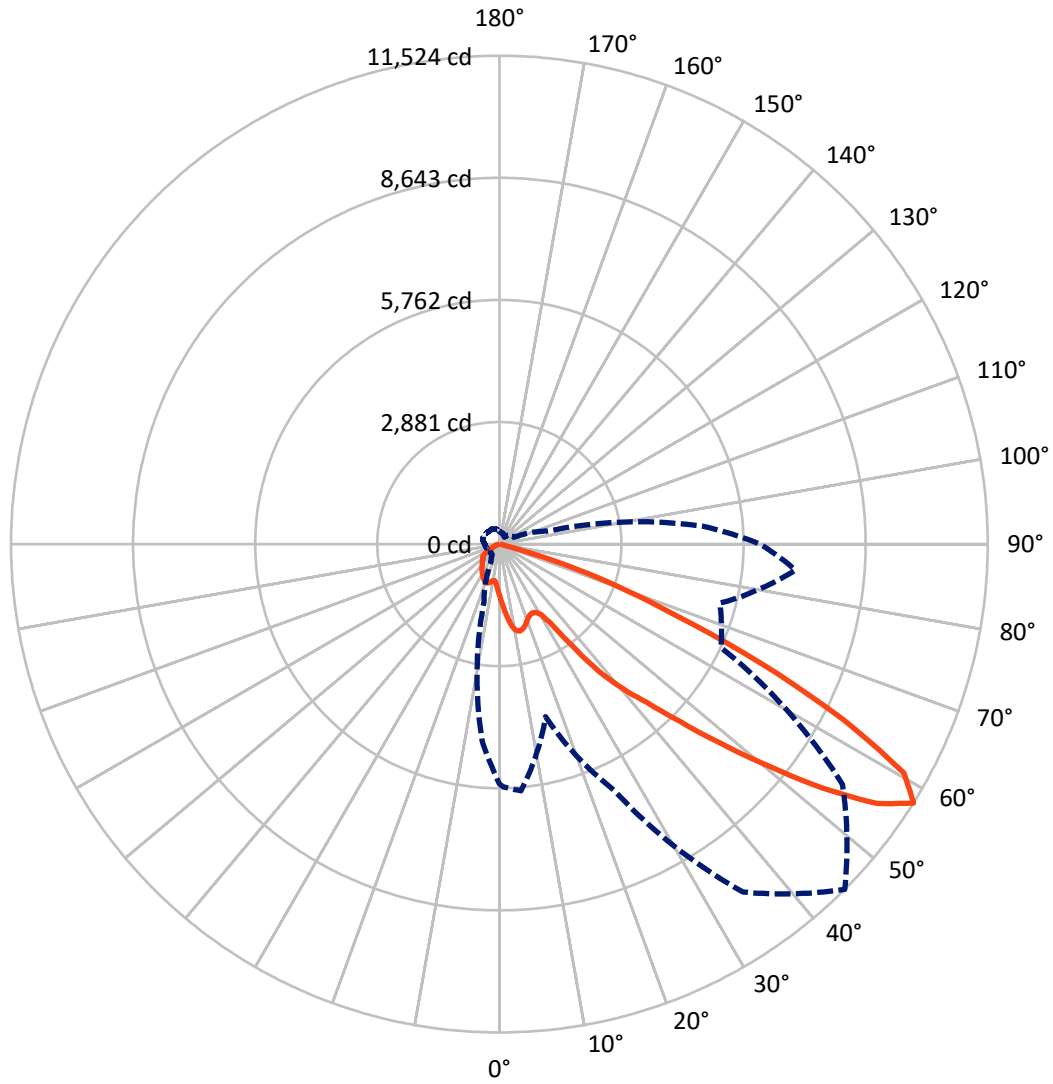
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 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	1562.4	0.0	1562.4
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	5415.1	0.0	5415.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	6977.5	0.0	6977.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.7
10°-20°	390.3	5.6
20°-30°	634.0	9.1
30°-40°	979.6	14.0
40°-50°	1570.8	22.5
50°-60°	2146.9	30.8
60°-70°	1039.8	14.9
70°-80°	95.2	1.4
80°-90°	0.3	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°	6977.5	100.0
0°-180°	6977.5	100.0

Coefficient of Utilization



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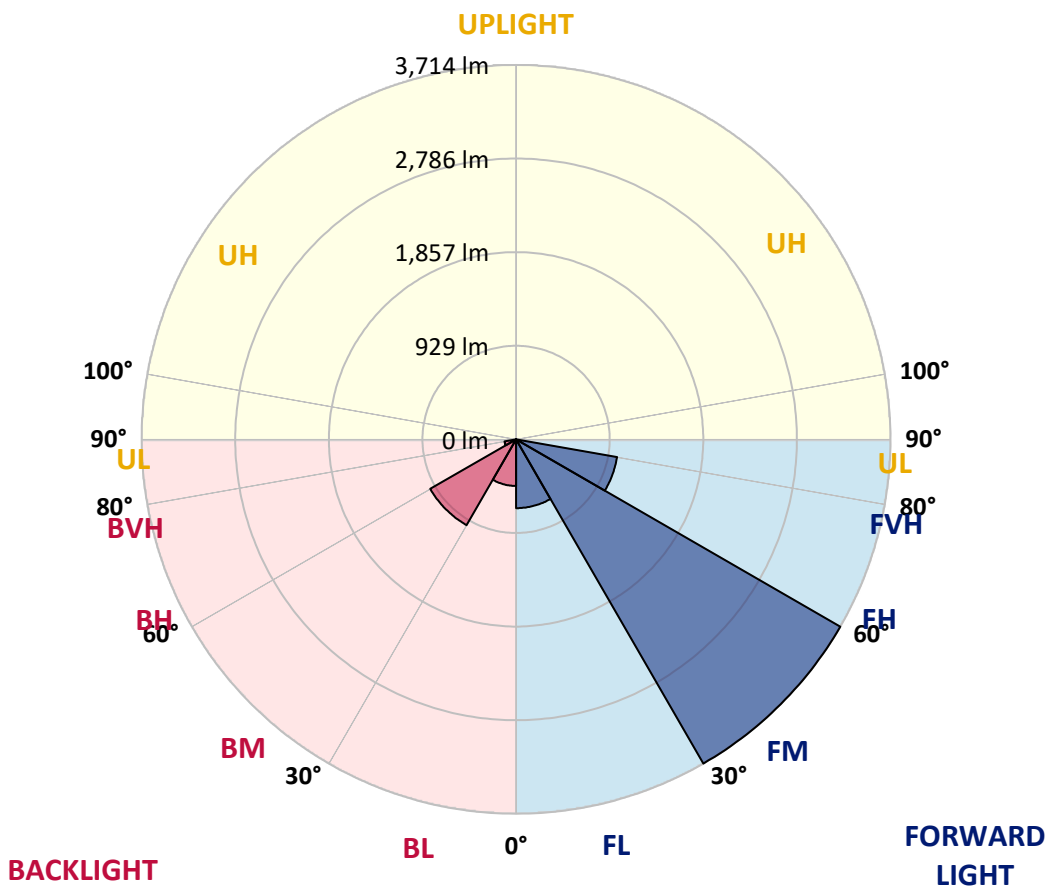
CATALOG NUMBER: GWS-SA5B-722-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.6	9.8			
FM (30°-60°)	3714.3	53.2			
FH (60°-80°)	1017.9	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	462.3	6.6	B1/500		
BM (30°-60°)	983.0	14.1	B1/1000		
BH (60°-80°)	117.1	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: 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°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1328.6	1337.0	1351.1	1381.1	1406.4	1423.3	1430.8	1428.9	1418.6	1411.1	1396.1
5°	1471.1	1471.1	1498.3	1566.7	1619.2	1652.0	1668.9	1658.6	1638.0	1605.2	1554.5
7.5°	1595.8	1600.5	1646.4	1743.9	1823.6	1870.5	1897.7	1892.1	1855.5	1792.7	1691.4
10°	1693.3	1698.9	1759.9	1878.9	1972.7	2020.5	2060.8	2064.6	2024.3	1940.8	1824.6
12.5°	1788.0	1793.6	1857.4	1971.8	2054.3	2074.0	2109.6	2123.6	2113.3	2054.3	1933.3
15°	1890.2	1903.3	1957.7	2043.0	2077.7	2054.3	2077.7	2103.0	2137.7	2132.1	2023.3
17.5°	1990.5	1999.9	2055.2	2085.2	2046.8	1985.8	1997.1	2027.1	2105.8	2182.7	2112.4
20°	2083.3	2096.5	2142.4	2103.0	1986.8	1892.1	1893.0	1932.4	2052.4	2213.7	2203.3
22.5°	2180.8	2200.5	2233.3	2122.7	1931.4	1818.0	1822.7	1858.3	2010.2	2242.7	2306.5
25°	2308.4	2327.1	2348.7	2171.5	1913.6	1781.4	1799.2	1832.1	2010.2	2292.4	2434.0
27.5°	2480.9	2494.0	2494.9	2262.4	1944.6	1787.1	1824.6	1862.1	2070.2	2391.8	2604.6
30°	2697.5	2718.1	2690.9	2404.0	2041.1	1862.1	1917.4	1964.3	2199.6	2559.6	2855.9
32.5°	2960.9	2990.0	2953.4	2614.0	2242.7	2120.8	2221.2	2248.3	2405.9	2802.5	3140.9
35°	3270.3	3294.7	3255.3	2904.7	2713.4	2735.9	2917.8	2883.1	2820.3	3101.6	3473.8
37.5°	3609.7	3632.2	3556.3	3345.3	3409.1	3506.6	3797.2	3678.2	3475.7	3486.9	3834.8
40°	3921.0	3945.4	3826.3	3824.4	3955.7	4133.8	4484.5	4320.4	4044.8	3991.3	4173.2
42.5°	4243.5	4260.4	4152.6	4079.5	4377.6	4744.2	5115.5	4894.2	4421.7	4363.6	4597.0
45°	4703.9	4739.5	4547.3	4205.1	4757.3	5446.5	5964.0	5531.8	4678.6	4631.7	5245.8
47.5°	5380.8	5407.1	5015.2	4283.9	5110.8	6321.2	7024.4	6358.7	4904.5	4797.7	6132.8
50°	5940.6	5958.4	5445.5	4370.1	5486.8	7264.5	8233.0	7339.5	5158.6	5072.4	6960.7
52.5°	6353.1	6420.6	6010.9	4547.3	5980.9	8373.6	9570.9	8501.1	5555.2	5603.1	7647.0
55°	6438.4	6530.3	6397.2	4656.1	6415.9	9503.4	10806.7	9540.9	5950.9	6005.3	7877.6
57.5°	5658.4	5731.5	5842.1	4217.3	6405.6	10021.0	11523.9	9886.0	5770.9	5385.5	7014.1
60°	4238.9	4289.5	4490.1	3223.4	5890.9	9563.4	10965.1	9299.0	5046.1	4109.5	5344.3
62.5°	2513.7	2536.2	2790.3	2088.0	4889.5	8235.8	9093.7	8023.9	3987.6	2764.0	3273.1
65°	964.8	955.4	1149.5	1030.4	3595.7	6560.3	6763.8	6116.9	2735.9	1266.7	1247.9
67.5°	149.1	142.5	192.2	304.7	2593.4	4546.4	4462.9	4408.6	1713.9	295.3	257.8
70°	33.8	33.8	41.3	90.0	1584.5	2671.2	2858.7	2725.6	1097.0	62.8	33.8
72.5°	15.9	15.9	19.7	38.4	573.8	1100.7	1282.6	1262.9	356.3	20.6	12.2
75°	5.6	6.6	6.6	8.4	34.7	57.2	131.3	93.8	22.5	0.0	0.0
77.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	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°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1363.3	1356.7	1332.3	1299.5	1267.6	1239.5	1210.4	1175.7	1150.4	1121.4	1112.0
5°	1515.1	1473.9	1407.3	1337.9	1274.2	1219.8	1167.3	1111.0	1069.8	1028.5	1014.5
7.5°	1643.6	1582.7	1474.8	1370.8	1283.6	1206.7	1130.7	1053.9	993.8	945.1	930.1
10°	1758.9	1688.6	1544.2	1415.8	1306.1	1217.0	1125.1	1028.5	950.7	892.6	878.5
12.5°	1858.3	1776.7	1603.3	1449.5	1315.4	1213.2	1124.2	1047.3	977.0	910.4	892.6
15°	1941.8	1851.7	1653.0	1472.0	1301.4	1166.4	1088.5	1076.4	1070.7	997.6	962.9
17.5°	2023.3	1922.1	1693.3	1482.3	1262.0	1083.9	1027.6	1082.9	1142.0	1094.2	1050.1
20°	2108.6	1993.3	1734.5	1484.2	1196.4	991.0	981.7	1068.9	1143.9	1128.9	1087.6
22.5°	2209.0	2082.4	1786.1	1483.3	1113.9	912.3	947.9	1041.7	1102.6	1101.7	1068.9
25°	2354.3	2194.9	1855.5	1488.9	1023.9	851.3	910.4	995.7	1045.4	1043.5	1016.3
27.5°	2509.9	2329.0	1945.5	1503.0	947.0	815.7	866.3	932.9	976.0	974.2	950.7
30°	2728.4	2483.7	2031.8	1503.9	891.7	797.0	817.6	863.5	904.8	900.1	882.3
32.5°	2993.7	2658.1	2104.0	1450.5	857.0	779.1	767.0	790.4	822.3	815.7	811.0
35°	3314.4	2865.3	2165.8	1333.3	803.5	743.5	710.7	715.4	737.9	741.6	739.8
37.5°	3680.0	3111.9	2242.7	1178.6	731.3	691.9	647.9	644.1	657.3	669.4	678.8
40°	4041.0	3389.4	2346.8	1022.0	665.7	626.3	584.1	574.7	580.4	601.9	621.6
42.5°	4447.0	3711.0	2459.3	887.9	620.7	554.1	513.8	496.0	511.9	546.6	570.1
45°	5032.1	4162.0	2569.0	781.0	601.9	490.4	436.0	434.1	451.9	496.9	523.2
47.5°	5853.4	4745.2	2641.2	697.6	601.0	440.7	376.0	387.2	407.9	451.9	481.9
50°	6654.1	5475.5	2561.5	633.8	581.3	407.9	331.0	353.5	374.1	412.5	443.5
52.5°	7137.0	5868.4	2251.2	573.8	520.4	392.9	286.9	326.3	330.0	364.7	397.5
55°	7086.3	5614.3	1724.2	481.0	430.4	371.3	241.0	294.4	296.3	322.5	350.7
57.5°	6150.6	4820.2	1184.2	390.0	323.5	306.6	198.8	248.5	266.3	282.2	302.8
60°	4583.9	3516.9	527.9	316.9	205.3	207.2	169.7	187.5	214.7	233.5	251.3
62.5°	2701.2	2023.3	214.7	190.3	113.4	130.3	136.9	136.9	153.8	167.8	179.1
65°	1021.0	707.9	87.2	95.6	59.1	60.9	80.6	99.4	112.5	124.7	139.7
67.5°	179.1	123.8	45.0	35.6	34.7	30.9	41.3	64.7	72.2	81.6	88.1
70°	30.0	25.3	18.8	17.8	15.9	16.9	27.2	45.9	50.6	53.4	56.3
72.5°	8.4	7.5	5.6	4.7	3.8	4.7	16.9	35.6	37.5	39.4	42.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	6.6	25.3	27.2	28.1	30.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	7.5	9.4	7.5
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°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1106.4	1087.6	1077.3	1071.7	1071.7	1064.2	1055.7	1052.9	1065.1	1065.1	1085.7
5°	996.7	981.7	964.8	954.5	938.5	941.3	932.0	931.0	943.2	948.8	970.4
7.5°	920.7	902.0	891.7	885.1	876.6	872.9	864.5	861.6	868.2	877.6	898.2
10°	870.1	867.3	866.3	871.0	871.0	866.3	858.8	854.1	856.0	873.8	897.3
12.5°	883.2	888.8	890.7	898.2	902.0	898.2	892.6	894.5	906.7	939.5	974.2
15°	940.4	935.7	933.8	937.6	940.4	936.7	934.8	948.8	991.0	1037.9	1077.3
17.5°	1001.3	971.3	958.2	958.2	960.1	958.2	960.1	987.3	1055.7	1102.6	1131.7
20°	1032.3	977.0	956.3	951.7	955.4	956.3	962.9	993.8	1068.9	1101.7	1108.2
22.5°	1022.9	953.5	930.1	926.3	930.1	933.8	940.4	966.7	1037.0	1053.9	1051.0
25°	976.0	907.6	888.8	888.8	897.3	896.3	899.2	917.9	976.0	986.3	981.7
27.5°	917.0	852.3	836.3	845.7	853.2	851.3	852.3	868.2	911.3	914.2	909.5
30°	857.0	800.7	785.7	797.0	807.3	805.4	806.3	822.3	849.5	846.6	840.1
32.5°	796.0	754.8	743.5	750.1	766.0	764.1	767.9	784.8	795.1	782.9	775.4
35°	739.8	718.2	709.8	713.5	725.7	728.5	735.1	746.3	746.3	731.3	718.2
37.5°	687.3	684.4	678.8	674.1	685.4	693.8	703.2	716.3	697.6	676.0	663.8
40°	638.5	650.7	643.2	631.0	637.6	649.8	668.5	678.8	656.3	634.7	614.1
42.5°	593.5	614.1	611.3	596.3	601.9	613.2	634.7	643.2	616.9	592.6	572.9
45°	550.4	579.4	581.3	562.6	568.2	579.4	604.7	607.6	573.8	547.6	533.5
47.5°	512.9	544.7	545.7	531.6	533.5	549.4	572.9	573.8	535.4	511.0	493.2
50°	477.2	513.8	516.6	504.4	506.3	525.1	544.7	541.0	499.7	474.4	458.5
52.5°	434.1	483.8	490.4	484.7	492.2	507.2	519.4	506.3	458.5	433.2	419.1
55°	387.2	451.9	466.0	462.2	470.7	482.9	485.7	477.2	417.2	391.9	378.8
57.5°	332.8	372.2	396.6	389.1	395.7	407.9	416.3	409.7	364.7	345.0	333.8
60°	275.7	301.9	307.5	295.3	289.7	311.3	331.0	322.5	284.1	271.9	258.8
62.5°	201.6	231.6	235.3	219.4	212.8	236.3	253.1	244.7	202.5	189.4	179.1
65°	161.3	189.4	196.9	181.9	178.1	196.0	206.3	185.6	155.6	141.6	130.3
67.5°	105.9	128.5	148.1	147.2	139.7	145.3	137.8	120.9	99.4	91.9	84.4
70°	65.6	78.8	90.9	95.6	94.7	92.8	82.5	70.3	63.8	60.9	57.2
72.5°	50.6	63.8	73.1	75.9	76.9	74.1	65.6	54.4	47.8	44.1	41.3
75°	37.5	47.8	55.3	59.1	60.9	59.1	50.6	43.1	36.6	33.8	30.9
77.5°	13.1	15.9	19.7	21.6	20.6	19.7	17.8	17.8	14.1	13.1	11.3
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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CATALOG NUMBER: GWS-SA5B-722-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4	1226.4
2.5°	1109.2	1126.0	1157.0	1185.1	1215.1	1246.1	1279.8	1314.5	1330.4	1328.6
5°	1003.2	1039.8	1090.4	1145.7	1207.6	1274.2	1348.3	1424.2	1457.0	1471.1
7.5°	936.7	988.2	1054.8	1125.1	1206.7	1301.4	1413.0	1532.0	1579.8	1595.8
10°	945.1	1005.1	1060.4	1128.9	1216.1	1338.9	1477.6	1619.2	1675.5	1693.3
12.5°	1013.5	1026.7	1041.7	1097.9	1207.6	1367.0	1536.7	1705.5	1770.2	1788.0
15°	1075.4	1014.5	986.3	1037.9	1177.6	1386.7	1596.7	1798.3	1869.6	1890.2
17.5°	1078.2	986.3	923.5	963.8	1128.9	1395.1	1655.8	1893.0	1970.8	1990.5
20°	1043.5	955.4	874.8	875.7	1062.3	1393.3	1704.5	1978.3	2065.5	2083.3
22.5°	992.9	918.8	835.4	806.3	991.0	1389.5	1758.0	2069.3	2164.0	2180.8
25°	936.7	872.0	797.9	753.8	919.8	1393.3	1833.0	2188.3	2292.4	2308.4
27.5°	875.7	820.4	768.8	733.2	859.8	1407.3	1923.0	2340.2	2464.0	2480.9
30°	812.0	770.7	750.1	728.5	822.3	1411.1	2020.5	2517.4	2674.0	2697.5
32.5°	749.1	726.6	727.6	731.3	786.6	1384.8	2109.6	2714.3	2923.4	2960.9
35°	691.0	684.4	703.2	721.9	735.1	1317.3	2187.4	2946.9	3231.9	3270.3
37.5°	641.3	646.9	670.4	689.1	678.8	1221.7	2290.5	3237.5	3576.9	3609.7
40°	593.5	607.6	634.7	643.2	635.7	1110.1	2414.3	3517.8	3876.0	3921.0
42.5°	549.4	559.7	598.2	600.1	623.5	996.7	2533.4	3819.8	4220.1	4243.5
45°	513.8	511.9	551.3	563.5	639.4	871.0	2649.6	4222.0	4670.1	4703.9
47.5°	479.1	477.2	486.6	541.9	646.0	754.8	2765.0	4810.8	5322.7	5380.8
50°	446.3	449.1	420.0	531.6	610.4	665.7	2817.5	5355.5	5916.2	5940.6
52.5°	417.2	406.9	356.3	497.9	534.4	581.3	2668.4	5603.1	6283.7	6353.1
55°	376.0	318.8	293.5	404.1	421.9	507.2	2185.5	5459.6	6315.6	6438.4
57.5°	321.6	250.3	249.4	298.2	298.2	470.7	1399.8	4664.5	5442.7	5658.4
60°	247.5	194.1	206.3	207.2	191.3	343.2	785.7	3379.1	4024.1	4238.9
62.5°	176.3	148.1	155.6	123.8	109.7	171.6	376.9	1945.5	2483.7	2513.7
65°	118.1	100.3	81.6	68.4	67.5	73.1	155.6	703.2	855.1	964.8
67.5°	77.8	60.9	43.1	43.1	48.8	48.8	59.1	116.3	163.1	149.1
70°	50.6	42.2	27.2	26.3	31.9	31.9	30.0	31.9	33.8	33.8
72.5°	37.5	31.9	15.9	14.1	17.8	18.8	16.9	15.9	15.9	15.9
75°	28.1	22.5	9.4	6.6	8.4	11.3	9.4	6.6	6.6	5.6
77.5°	11.3	8.4	3.8	2.8	4.7	6.6	5.6	2.8	1.9	1.9
80°	0.9	1.9	1.9	1.9	2.8	3.8	4.7	1.9	0.9	0.9
82.5°	0.0	0.9	0.9	0.9	1.9	2.8	3.8	1.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	1.9	2.8	1.9	0.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.9	2.8	1.9	0.9	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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