

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: P633588

Luminaire Tested: GWS-SA2F-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633588  
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-SA2F-722-U-SLR-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

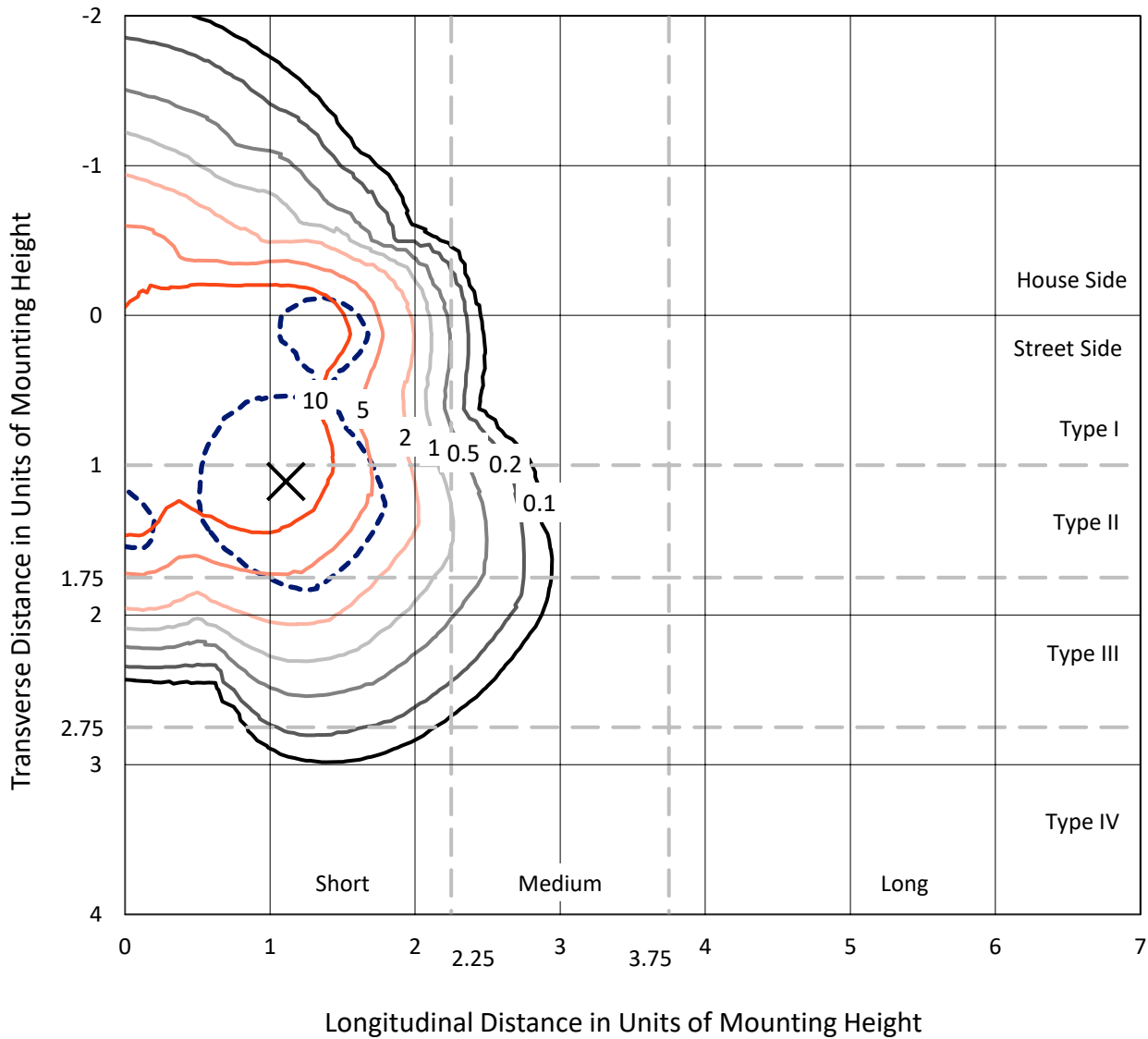
Lumens per Lamp: N/A  
Luminaire Lumens: 6375 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

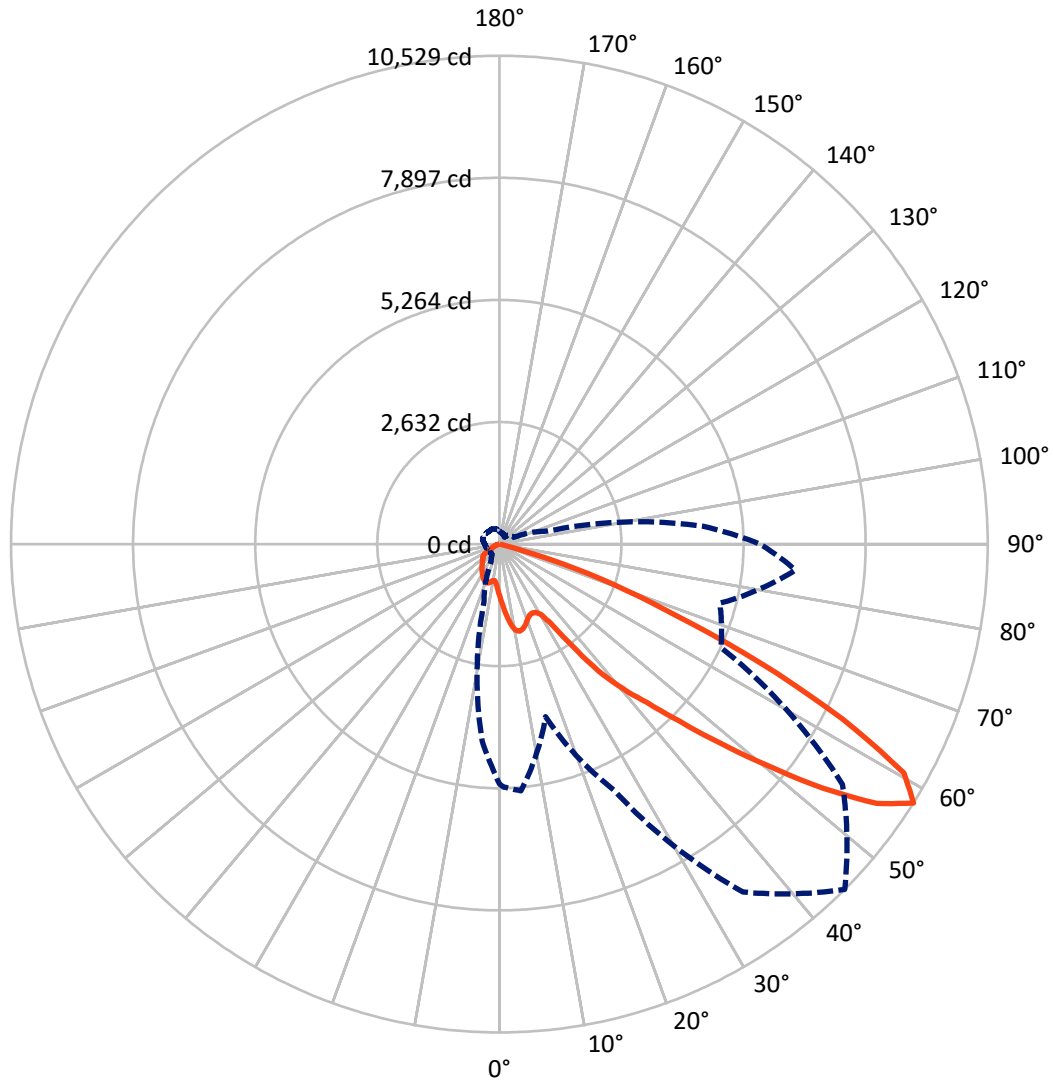
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 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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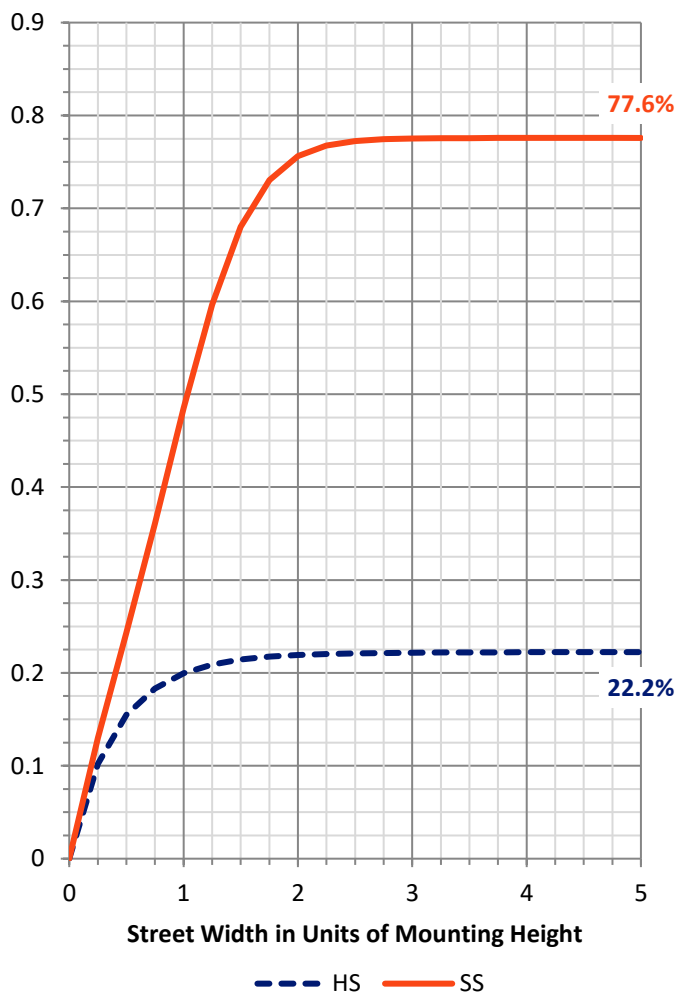
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1427.5	0.0	1427.5
	% Fixture	22.4	0.0	22.4
<b>Street Side</b>	Lumens	4947.5	0.0	4947.5
	% Fixture	77.6	0.0	77.6
<b>Total</b>	Lumens	6375.0	0.0	6375.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	1.7
10°-20°	356.6	5.6
20°-30°	579.3	9.1
30°-40°	895.0	14.0
40°-50°	1435.2	22.5
50°-60°	1961.5	30.8
60°-70°	950.0	14.9
70°-80°	87.0	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°	6375.0	100.0
0°-180°	6375.0	100.0

**Coefficient of Utilization**



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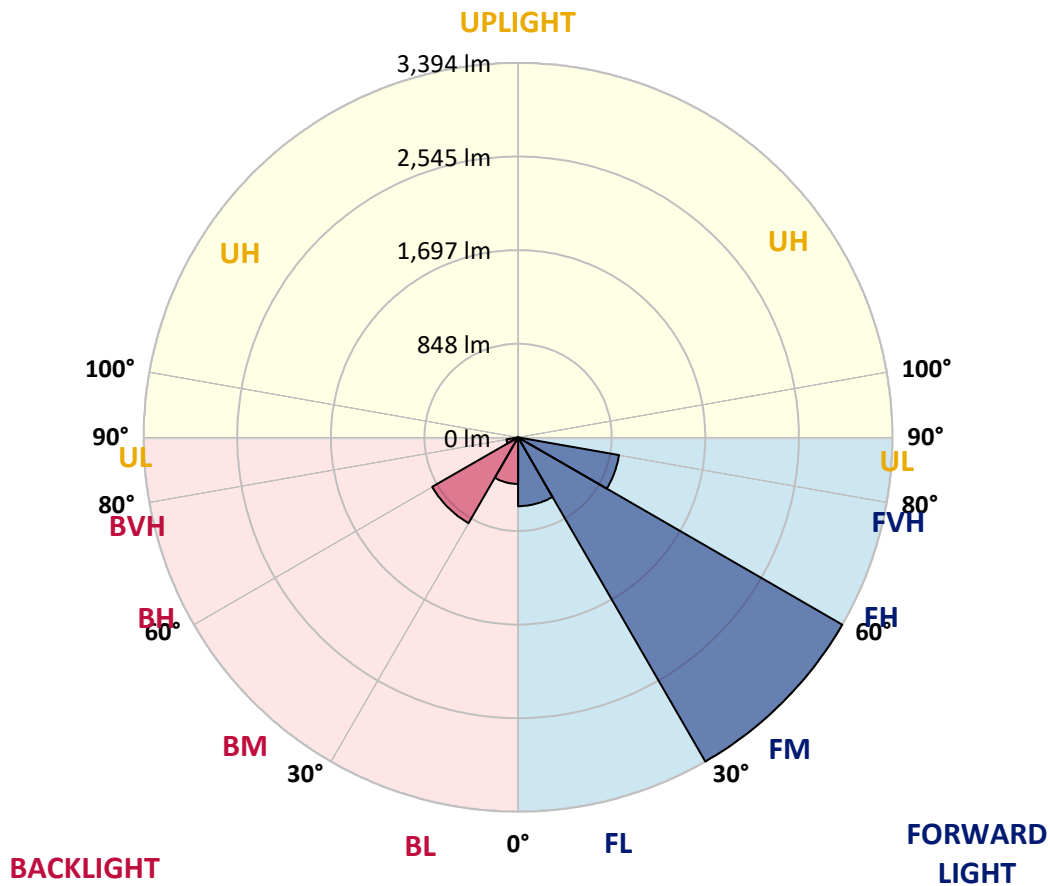
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.7	9.8			
FM (30°-60°)	3393.6	53.2			
FH (60°-80°)	930.0	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	422.4	6.6	B1/500		
BM (30°-60°)	898.1	14.1	B1/1000		
BH (60°-80°)	107.0	1.7	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°	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1213.8	1221.6	1234.4	1261.8	1284.9	1300.4	1307.2	1305.5	1296.1	1289.2	1275.5
5°	1344.1	1344.1	1368.9	1431.4	1479.4	1509.4	1524.8	1515.4	1496.5	1466.6	1420.3
7.5°	1458.0	1462.3	1504.2	1593.3	1666.1	1709.0	1733.8	1728.7	1695.3	1637.9	1545.4
10°	1547.1	1552.2	1607.9	1716.7	1802.4	1846.0	1882.9	1886.3	1849.5	1773.2	1667.0
12.5°	1633.6	1638.7	1697.0	1801.5	1876.9	1894.9	1927.4	1940.3	1930.8	1876.9	1766.4
15°	1727.0	1739.0	1788.6	1866.6	1898.3	1876.9	1898.3	1921.4	1953.1	1948.0	1848.6
17.5°	1818.6	1827.2	1877.7	1905.1	1870.0	1814.3	1824.6	1852.0	1924.0	1994.2	1930.0
20°	1903.4	1915.4	1957.4	1921.4	1815.2	1728.7	1729.5	1765.5	1875.2	2022.5	2013.1
22.5°	1992.5	2010.5	2040.5	1939.4	1764.7	1661.0	1665.3	1697.8	1836.6	2049.1	2107.3
25°	2109.0	2126.2	2145.9	1984.0	1748.4	1627.6	1643.9	1673.9	1836.6	2094.5	2223.8
27.5°	2266.6	2278.6	2279.5	2067.1	1776.7	1632.7	1667.0	1701.3	1891.4	2185.3	2379.7
30°	2464.5	2483.4	2458.5	2196.4	1864.9	1701.3	1751.8	1794.6	2009.7	2338.6	2609.3
32.5°	2705.2	2731.8	2698.4	2388.3	2049.1	1937.7	2029.4	2054.2	2198.1	2560.5	2869.7
35°	2987.9	3010.2	2974.2	2653.8	2479.1	2499.7	2665.8	2634.1	2576.7	2833.7	3173.8
37.5°	3298.0	3318.6	3249.2	3056.5	3114.7	3203.8	3469.4	3360.6	3175.5	3185.8	3503.6
40°	3582.4	3604.7	3495.9	3494.2	3614.1	3776.9	4097.3	3947.4	3695.5	3646.7	3812.9
42.5°	3877.1	3892.5	3794.0	3727.2	3999.6	4334.6	4673.8	4471.6	4039.9	3986.8	4200.1
45°	4297.7	4330.3	4154.7	3842.0	4346.6	4976.2	5449.0	5054.1	4274.6	4231.8	4792.9
47.5°	4916.2	4940.2	4582.1	3914.0	4669.5	5775.4	6417.9	5809.7	4481.0	4383.4	5603.2
50°	5427.6	5443.9	4975.3	3992.8	5013.0	6637.2	7522.1	6705.7	4713.2	4634.4	6359.6
52.5°	5804.5	5866.2	5491.9	4154.7	5464.5	7650.6	8744.5	7767.1	5075.5	5119.2	6986.7
55°	5882.5	5966.4	5844.8	4254.0	5861.9	8682.8	9873.5	8717.1	5437.0	5486.7	7197.4
57.5°	5169.8	5236.6	5337.7	3853.1	5852.5	9155.7	10528.9	9032.3	5272.6	4920.5	6408.5
60°	3872.8	3919.1	4102.4	2945.1	5382.2	8737.6	10018.3	8496.1	4610.4	3754.6	4882.8
62.5°	2296.6	2317.2	2549.3	1907.7	4467.3	7524.7	8308.5	7331.1	3643.3	2525.4	2990.5
65°	881.5	872.9	1050.2	941.4	3285.2	5993.9	6179.7	5588.7	2499.7	1157.3	1140.2
67.5°	136.2	130.2	175.6	278.4	2369.4	4153.8	4077.6	4027.9	1565.9	269.8	235.6
70°	30.8	30.8	37.7	82.2	1447.7	2440.5	2611.9	2490.2	1002.3	57.4	30.8
72.5°	14.6	14.6	18.0	35.1	524.3	1005.7	1171.9	1153.9	325.5	18.8	11.1
75°	5.1	6.0	6.0	7.7	31.7	52.3	119.9	85.7	20.6	0.0	0.0
77.5°	1.7	1.7	1.7	1.7	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°	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1245.5	1239.5	1217.3	1187.3	1158.2	1132.5	1105.9	1074.2	1051.1	1024.5	1016.0
5°	1384.3	1346.6	1285.8	1222.4	1164.2	1114.5	1066.5	1015.1	977.4	939.7	926.9
7.5°	1501.7	1446.0	1347.5	1252.4	1172.7	1102.5	1033.1	962.9	908.0	863.5	849.8
10°	1607.0	1542.8	1410.9	1293.5	1193.3	1111.9	1028.0	939.7	868.6	815.5	802.7
12.5°	1697.8	1623.3	1464.8	1324.4	1201.9	1108.5	1027.1	956.9	892.6	831.8	815.5
15°	1774.1	1691.8	1510.2	1344.9	1189.0	1065.7	994.5	983.4	978.3	911.5	879.8
17.5°	1848.6	1756.1	1547.1	1354.3	1153.0	990.3	938.9	989.4	1043.4	999.7	959.4
20°	1926.6	1821.2	1584.8	1356.0	1093.1	905.5	896.9	976.6	1045.1	1031.4	993.7
22.5°	2018.2	1902.6	1631.9	1355.2	1017.7	833.5	866.1	951.7	1007.4	1006.5	976.6
25°	2151.0	2005.4	1695.3	1360.3	935.4	777.8	831.8	909.7	955.1	953.4	928.6
27.5°	2293.2	2127.9	1777.5	1373.2	865.2	745.3	791.5	852.3	891.8	890.0	868.6
30°	2492.8	2269.2	1856.3	1374.0	814.7	728.1	747.0	789.0	826.6	822.4	806.1
32.5°	2735.2	2428.6	1922.3	1325.2	783.0	711.9	700.7	722.1	751.3	745.3	741.0
35°	3028.2	2617.9	1978.8	1218.1	734.1	679.3	649.3	653.6	674.2	677.6	675.9
37.5°	3362.3	2843.2	2049.1	1076.8	668.2	632.2	591.9	588.5	600.5	611.6	620.2
40°	3692.1	3096.7	2144.1	933.7	608.2	572.2	533.7	525.1	530.3	550.0	567.9
42.5°	4063.0	3390.5	2246.9	811.2	567.1	506.3	469.4	453.2	467.7	499.4	520.8
45°	4597.5	3802.6	2347.2	713.6	550.0	448.0	398.3	396.6	412.9	454.0	478.0
47.5°	5348.0	4335.4	2413.1	637.3	549.1	402.6	343.5	353.8	372.6	412.9	440.3
50°	6079.5	5002.7	2340.3	579.1	531.1	372.6	302.4	323.0	341.8	376.9	405.2
52.5°	6520.7	5361.7	2056.8	524.3	475.4	358.9	262.1	298.1	301.5	333.2	363.2
55°	6474.4	5129.5	1575.3	439.5	393.2	339.2	220.2	269.0	270.7	294.7	320.4
57.5°	5619.5	4403.9	1081.9	356.4	295.5	280.1	181.6	227.0	243.3	257.8	276.7
60°	4188.1	3213.2	482.3	289.5	187.6	189.3	155.1	171.3	196.2	213.3	229.6
62.5°	2468.0	1848.6	196.2	173.9	103.7	119.1	125.1	125.1	140.5	153.3	163.6
65°	932.9	646.8	79.7	87.4	54.0	55.7	73.7	90.8	102.8	113.9	127.6
67.5°	163.6	113.1	41.1	32.6	31.7	28.3	37.7	59.1	66.0	74.5	80.5
70°	27.4	23.1	17.1	16.3	14.6	15.4	24.8	42.0	46.3	48.8	51.4
72.5°	7.7	6.9	5.1	4.3	3.4	4.3	15.4	32.6	34.3	36.0	38.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	6.0	23.1	24.8	25.7	28.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	6.9	8.6	6.9
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°	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1010.8	993.7	984.3	979.1	979.1	972.3	964.6	962.0	973.1	973.1	992.0
5°	910.6	896.9	881.5	872.1	857.5	860.1	851.5	850.6	861.8	866.9	886.6
7.5°	841.2	824.1	814.7	808.7	801.0	797.5	789.8	787.2	793.2	801.8	820.7
10°	795.0	792.4	791.5	795.8	795.8	791.5	784.7	780.4	782.1	798.4	819.8
12.5°	806.9	812.1	813.8	820.7	824.1	820.7	815.5	817.2	828.4	858.3	890.0
15°	859.2	854.9	853.2	856.6	859.2	855.8	854.1	866.9	905.5	948.3	984.3
17.5°	914.9	887.5	875.5	875.5	877.2	875.5	877.2	902.0	964.6	1007.4	1034.0
20°	943.2	892.6	873.8	869.5	872.9	873.8	879.8	908.0	976.6	1006.5	1012.5
22.5°	934.6	871.2	849.8	846.4	849.8	853.2	859.2	883.2	947.4	962.9	960.3
25°	891.8	829.2	812.1	812.1	819.8	818.9	821.5	838.6	891.8	901.2	896.9
27.5°	837.8	778.7	764.1	772.7	779.5	777.8	778.7	793.2	832.6	835.2	830.9
30°	783.0	731.6	717.9	728.1	737.6	735.8	736.7	751.3	776.1	773.5	767.5
32.5°	727.3	689.6	679.3	685.3	699.9	698.2	701.6	717.0	726.4	715.3	708.4
35°	675.9	656.2	648.5	651.9	663.0	665.6	671.6	681.9	681.9	668.2	656.2
37.5°	627.9	625.3	620.2	615.9	626.2	633.9	642.5	654.5	637.3	617.6	606.5
40°	583.4	594.5	587.6	576.5	582.5	593.6	610.8	620.2	599.6	579.9	561.1
42.5°	542.2	561.1	558.5	544.8	550.0	560.2	579.9	587.6	563.7	541.4	523.4
45°	502.8	529.4	531.1	514.0	519.1	529.4	552.5	555.1	524.3	500.3	487.4
47.5°	468.6	497.7	498.6	485.7	487.4	502.0	523.4	524.3	489.1	466.9	450.6
50°	436.0	469.4	472.0	460.9	462.6	479.7	497.7	494.3	456.6	433.5	418.9
52.5°	396.6	442.0	448.0	442.9	449.7	463.4	474.6	462.6	418.9	395.8	382.9
55°	353.8	412.9	425.7	422.3	430.0	441.2	443.7	436.0	381.2	358.1	346.1
57.5°	304.1	340.1	362.4	355.5	361.5	372.6	380.3	374.3	333.2	315.2	305.0
60°	251.8	275.8	281.0	269.8	264.7	284.4	302.4	294.7	259.6	248.4	236.4
62.5°	184.2	211.6	215.0	200.5	194.5	215.9	231.3	223.6	185.0	173.0	163.6
65°	147.3	173.0	179.9	166.2	162.8	179.0	188.5	169.6	142.2	129.4	119.1
67.5°	96.8	117.4	135.3	134.5	127.6	132.8	125.9	110.5	90.8	83.9	77.1
70°	60.0	72.0	83.1	87.4	86.5	84.8	75.4	64.2	58.3	55.7	52.3
72.5°	46.3	58.3	66.8	69.4	70.2	67.7	60.0	49.7	43.7	40.3	37.7
75°	34.3	43.7	50.5	54.0	55.7	54.0	46.3	39.4	33.4	30.8	28.3
77.5°	12.0	14.6	18.0	19.7	18.8	18.0	16.3	16.3	12.8	12.0	10.3
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-SA2F-722-U-SLR-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1013.4	1028.8	1057.1	1082.8	1110.2	1138.5	1169.3	1201.0	1215.6	1213.8
5°	916.6	950.0	996.3	1046.8	1103.3	1164.2	1231.8	1301.2	1331.2	1344.1
7.5°	855.8	902.9	963.7	1028.0	1102.5	1189.0	1290.9	1399.7	1443.4	1458.0
10°	863.5	918.3	968.9	1031.4	1111.1	1223.3	1350.1	1479.4	1530.8	1547.1
12.5°	926.0	938.0	951.7	1003.1	1103.3	1249.0	1404.0	1558.2	1617.3	1633.6
15°	982.6	926.9	901.2	948.3	1075.9	1267.0	1458.8	1643.0	1708.1	1727.0
17.5°	985.1	901.2	843.8	880.6	1031.4	1274.7	1512.8	1729.5	1800.6	1818.6
20°	953.4	872.9	799.2	800.1	970.6	1273.0	1557.4	1807.5	1887.2	1903.4
22.5°	907.2	839.5	763.3	736.7	905.5	1269.5	1606.2	1890.6	1977.1	1992.5
25°	855.8	796.7	729.0	688.7	840.4	1273.0	1674.7	1999.4	2094.5	2109.0
27.5°	800.1	749.6	702.4	669.9	785.5	1285.8	1757.0	2138.2	2251.2	2266.6
30°	741.8	704.2	685.3	665.6	751.3	1289.2	1846.0	2300.1	2443.1	2464.5
32.5°	684.4	663.9	664.7	668.2	718.7	1265.2	1927.4	2479.9	2671.0	2705.2
35°	631.3	625.3	642.5	659.6	671.6	1203.6	1998.5	2692.4	2952.8	2987.9
37.5°	585.9	591.1	612.5	629.6	620.2	1116.2	2092.8	2958.0	3268.1	3298.0
40°	542.2	555.1	579.9	587.6	580.8	1014.3	2205.8	3214.1	3541.3	3582.4
42.5°	502.0	511.4	546.5	548.2	569.7	910.6	2314.6	3489.9	3855.7	3877.1
45°	469.4	467.7	503.7	514.8	584.2	795.8	2420.8	3857.4	4266.9	4297.7
47.5°	437.7	436.0	444.6	495.1	590.2	689.6	2526.2	4395.4	4863.1	4916.2
50°	407.8	410.3	383.8	485.7	557.7	608.2	2574.2	4893.1	5405.3	5427.6
52.5°	381.2	371.8	325.5	454.9	488.3	531.1	2438.0	5119.2	5741.1	5804.5
55°	343.5	291.3	268.1	369.2	385.5	463.4	1996.8	4988.2	5770.3	5882.5
57.5°	293.8	228.7	227.9	272.4	272.4	430.0	1279.0	4261.7	4972.7	5169.8
60°	226.2	177.3	188.5	189.3	174.8	313.5	717.9	3087.3	3676.7	3872.8
62.5°	161.0	135.3	142.2	113.1	100.2	156.8	344.4	1777.5	2269.2	2296.6
65°	107.9	91.7	74.5	62.5	61.7	66.8	142.2	642.5	781.2	881.5
67.5°	71.1	55.7	39.4	39.4	44.5	44.5	54.0	106.2	149.1	136.2
70°	46.3	38.5	24.8	24.0	29.1	29.1	27.4	29.1	30.8	30.8
72.5°	34.3	29.1	14.6	12.8	16.3	17.1	15.4	14.6	14.6	14.6
75°	25.7	20.6	8.6	6.0	7.7	10.3	8.6	6.0	6.0	5.1
77.5°	10.3	7.7	3.4	2.6	4.3	6.0	5.1	2.6	1.7	1.7
80°	0.9	1.7	1.7	1.7	2.6	3.4	4.3	1.7	0.9	0.9
82.5°	0.0	0.9	0.9	0.9	1.7	2.6	3.4	1.7	0.9	0.9
85°	0.0	0.0	0.0	0.0	1.7	2.6	1.7	0.9	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.9	2.6	1.7	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

(END OF REPORT)