

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: P637550

Luminaire Tested: GWS-SA4D-722-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11194.6 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

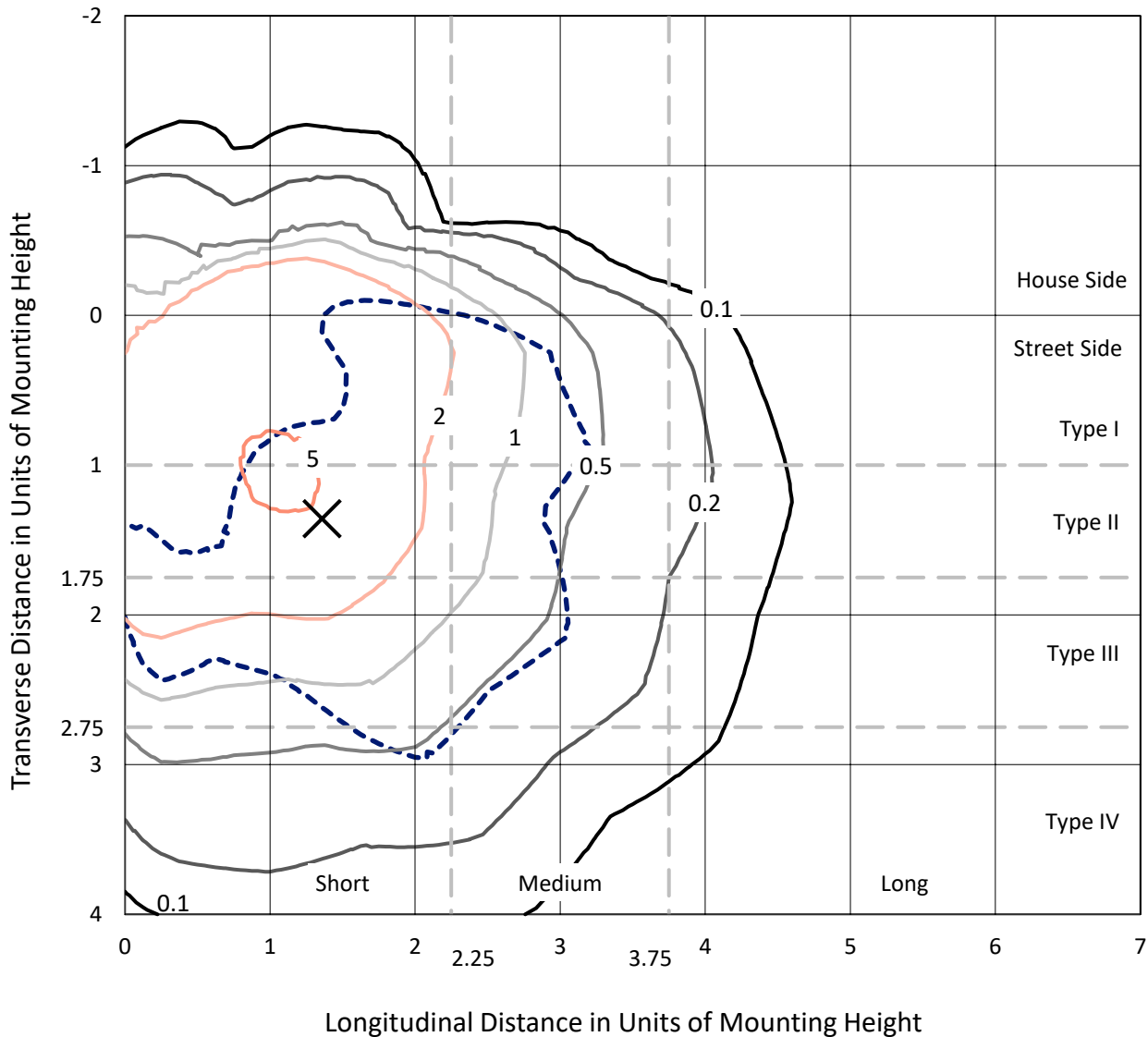
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

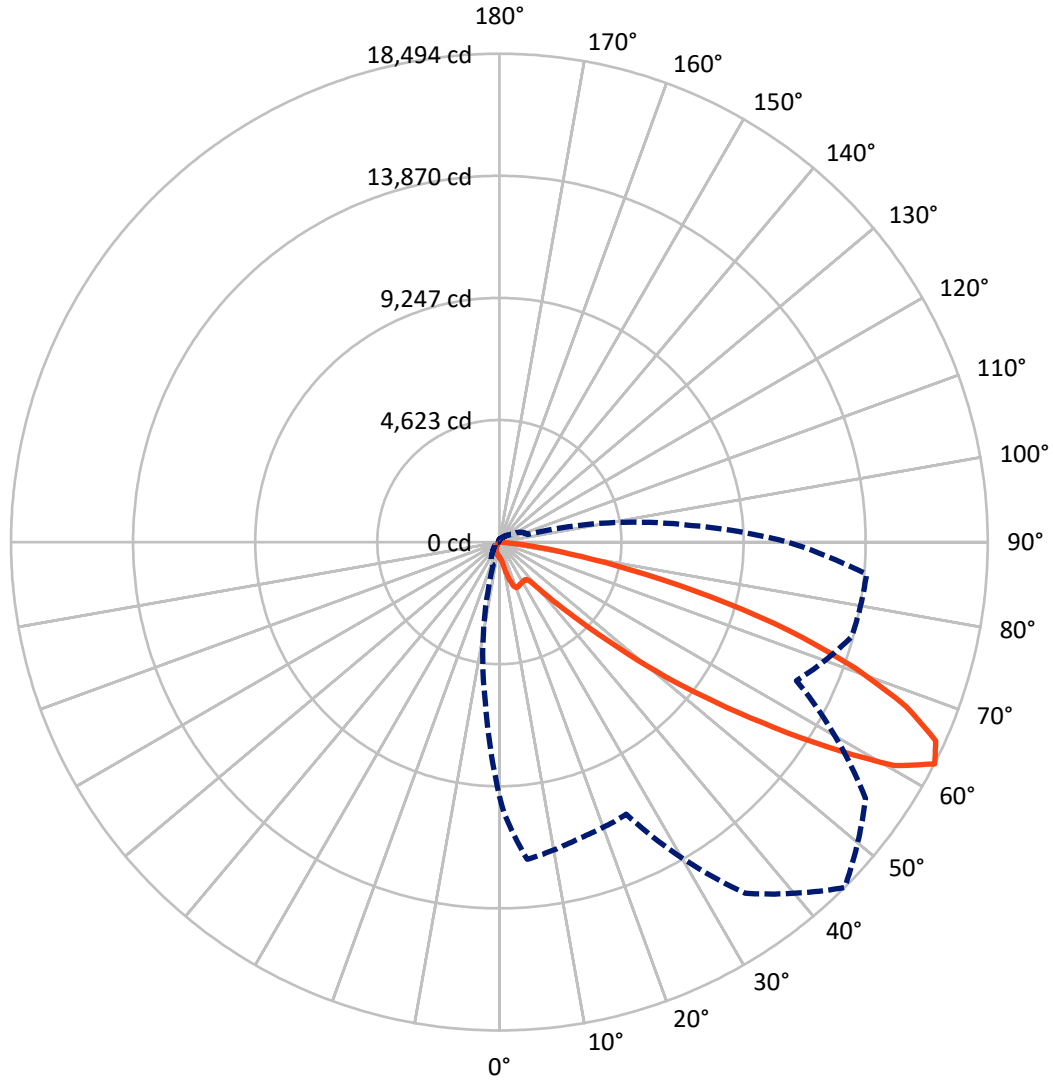
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - 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	1381.4	0.0	1381.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9813.2	0.0	9813.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	11194.6	0.0	11194.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	0.5
10°-20°	195.2	1.7
20°-30°	424.3	3.8
30°-40°	696.4	6.2
40°-50°	1280.2	11.4
50°-60°	2749.2	24.6
60°-70°	3692.6	33.0
70°-80°	1922.8	17.2
80°-90°	182.3	1.6
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°	11194.6	100.0
0°-180°	11194.6	100.0

Coefficient of Utilization



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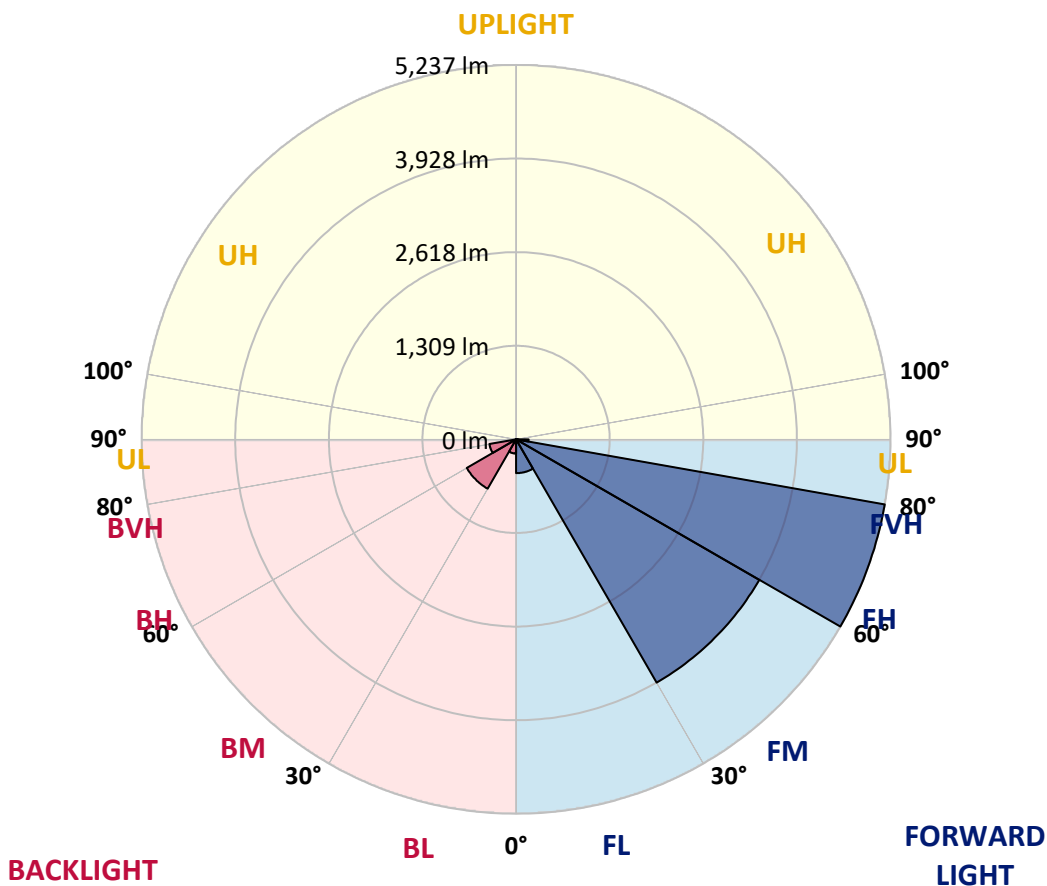
CATALOG NUMBER: GWS-SA4D-722-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.9	4.2			
FM (30°-60°)	3929.2	35.1			
FH (60°-80°)	5236.9	46.8			G3/7500
FVH (80°-90°)	174.2	1.6			G2/225
BL (0°-30°)	198.1	1.8	B1/500		
BM (30°-60°)	796.6	7.1	B1/1000		
BH (60°-80°)	378.5	3.4	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	593.5	596.1	598.7	607.7	614.2	619.4	620.7	616.8	607.7	598.7	585.8
5°	575.4	578.0	587.1	611.6	636.2	655.6	662.1	658.2	636.2	607.7	578.0
7.5°	574.1	579.3	601.3	653.0	706.0	746.1	756.5	747.4	706.0	649.1	588.4
10°	620.7	629.7	662.1	755.2	852.1	923.3	951.7	912.9	847.0	743.5	644.0
12.5°	742.2	757.7	819.8	955.6	1105.6	1200.0	1238.8	1190.9	1087.5	937.5	779.7
15°	933.6	956.9	1050.0	1253.0	1430.1	1514.2	1527.1	1500.0	1379.7	1214.2	1002.1
17.5°	1203.9	1237.5	1382.3	1589.2	1717.2	1746.9	1743.1	1714.6	1626.7	1512.9	1312.5
20°	1527.1	1567.2	1709.4	1880.1	1893.1	1858.2	1838.8	1821.9	1792.2	1772.8	1616.3
22.5°	1853.0	1902.1	2050.8	2093.5	1977.1	1876.3	1828.4	1841.3	1885.3	1981.0	1917.6
25°	2177.5	2224.1	2363.7	2248.7	2015.9	1847.8	1787.0	1818.1	1922.8	2129.7	2211.2
27.5°	2556.4	2591.3	2674.1	2354.7	2022.4	1824.5	1765.1	1812.9	1940.9	2222.8	2533.1
30°	2950.8	2971.5	2931.4	2383.1	2000.4	1789.6	1743.1	1812.9	1971.9	2284.9	2774.9
32.5°	3240.5	3244.3	3113.7	2385.7	1988.8	1761.2	1722.4	1805.1	2001.7	2336.6	3009.0
35°	3539.2	3519.8	3288.3	2424.5	2019.8	1771.5	1737.9	1827.1	2048.2	2397.4	3214.6
37.5°	3841.7	3806.8	3483.6	2487.9	2100.0	1884.0	1863.3	1939.6	2123.2	2481.4	3440.9
40°	4152.1	4104.2	3686.6	2583.6	2278.4	2266.8	2337.9	2328.8	2328.8	2588.7	3673.6
42.5°	4530.9	4475.3	3986.6	2853.8	2694.8	2954.7	3148.6	3028.4	2806.0	2835.7	3976.2
45°	5031.4	4983.5	4506.4	3371.1	3347.8	3945.2	4206.4	3968.5	3415.0	3406.0	4481.8
47.5°	5831.8	5822.7	5335.2	3971.0	4146.9	5205.9	5710.2	5252.5	4109.4	4009.8	5438.7
50°	6956.8	6929.6	6368.4	4674.5	5097.3	6768.0	7667.9	6905.0	4948.6	4714.6	6720.1
52.5°	8224.0	8252.4	7815.4	5442.6	6107.2	8505.9	9758.9	8798.1	5860.2	5610.7	8332.6
55°	9417.5	9580.4	9465.3	6341.3	7093.8	10424.8	12055.4	10874.8	6989.1	6783.5	10140.3
57.5°	10351.1	10810.1	11617.0	7647.3	8253.7	12669.6	14619.5	13126.0	8306.7	8688.2	12601.0
60°	10402.8	11010.6	12884.2	10379.5	9745.9	14595.0	17179.8	15325.6	10378.2	11922.2	14529.0
62.5°	9623.1	10274.8	12059.2	11620.9	11371.3	16233.3	18493.6	16929.0	12416.1	13816.5	13957.5
65°	8730.9	9389.0	11138.6	10212.7	11182.5	16163.5	18160.0	16966.5	12601.0	12528.6	12934.7
67.5°	7382.2	7973.1	9557.1	9039.9	10307.1	15383.7	16618.6	15897.1	11609.2	11717.9	11898.9
70°	5388.3	5957.2	7427.4	7453.3	9001.1	13978.2	14279.5	14179.9	10691.2	10806.2	10289.0
72.5°	3892.2	4371.9	5640.4	6112.4	7185.6	11721.7	11513.6	11897.6	9173.1	9624.4	8264.1
75°	2798.2	3157.7	4137.8	5317.1	5696.0	8705.0	8242.1	9214.5	7360.2	8287.3	6213.2
77.5°	1135.3	1262.0	1628.0	3581.8	3743.5	5856.3	5045.6	6693.0	5247.3	5445.1	3011.6
80°	46.6	51.7	67.2	1849.1	2566.8	3294.8	2699.9	3577.9	3465.4	2193.1	711.2
82.5°	5.2	5.2	11.6	532.7	1123.7	1818.1	1272.4	2061.2	1754.7	929.7	323.3
85°	1.3	1.3	2.6	60.8	263.8	290.9	172.0	632.3	815.9	380.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	11.6	12.9	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°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	585.8	579.3	571.5	563.8	559.9	549.6	545.7	543.1	540.5	541.8	541.8
5°	566.4	552.1	535.3	518.5	509.5	499.1	494.0	491.4	492.7	497.8	497.8
7.5°	563.8	536.6	500.4	478.4	468.1	460.3	455.2	452.6	453.9	460.3	462.9
10°	606.5	558.6	494.0	456.5	444.8	437.1	431.9	428.0	425.4	430.6	431.9
12.5°	698.3	632.3	525.0	453.9	433.2	422.8	419.0	411.2	407.3	409.9	411.2
15°	888.3	774.6	587.1	464.2	422.8	411.2	404.7	398.3	391.8	390.5	391.8
17.5°	1136.6	973.7	681.5	488.8	415.1	400.9	391.8	382.8	373.7	372.4	371.1
20°	1444.4	1218.1	813.3	527.6	408.6	391.8	378.9	365.9	354.3	350.4	350.4
22.5°	1725.0	1512.9	982.7	575.4	399.6	378.9	363.4	347.8	334.9	328.4	327.1
25°	2067.6	1825.8	1185.8	631.0	386.6	362.1	345.3	329.7	316.8	309.0	306.5
27.5°	2412.9	2155.6	1415.9	703.4	371.1	345.3	329.7	315.5	301.3	292.2	289.6
30°	2747.8	2511.2	1674.5	793.9	359.5	328.4	315.5	301.3	288.4	274.1	270.3
32.5°	3107.3	2874.5	1964.2	894.8	350.4	316.8	302.6	289.6	272.8	259.9	253.4
35°	3453.8	3249.5	2283.6	993.1	341.4	306.5	290.9	278.0	259.9	245.7	236.6
37.5°	3802.9	3631.0	2617.2	1052.6	328.4	292.2	278.0	267.7	247.0	230.2	219.8
40°	4172.8	4025.4	2978.0	1028.0	316.8	276.7	269.0	257.3	234.0	214.7	201.7
42.5°	4578.8	4401.6	3345.2	933.6	306.5	263.8	256.0	244.4	222.4	199.1	182.3
45°	5089.6	4814.1	3646.5	791.4	311.6	250.9	235.3	232.8	212.1	182.3	161.6
47.5°	5967.6	5447.7	3880.5	699.6	346.5	236.6	218.5	225.0	203.0	165.5	142.2
50°	7311.1	6497.7	4099.1	693.1	399.6	230.2	203.0	219.8	194.0	148.7	125.4
52.5°	8591.2	7564.5	4238.7	750.0	446.1	247.0	187.5	213.4	187.5	137.1	113.8
55°	9815.8	8180.0	3989.1	791.4	490.1	297.4	175.9	203.0	179.7	130.6	109.9
57.5°	11136.0	8454.1	3140.9	875.4	521.1	340.1	178.4	187.5	169.4	126.7	108.6
60°	11530.4	8103.7	1895.7	985.3	504.3	353.0	197.8	166.8	155.2	119.0	104.7
62.5°	10917.5	7272.3	1118.5	897.4	490.1	333.6	226.3	153.9	140.9	108.6	97.0
65°	10000.7	6143.4	729.3	757.7	519.8	297.4	240.5	147.4	128.0	98.3	85.3
67.5°	8953.3	4948.6	510.8	447.4	479.7	267.7	203.0	146.1	115.1	82.8	69.8
70°	7541.2	3706.0	359.5	296.1	399.6	237.9	157.8	142.2	100.9	67.2	54.3
72.5°	5826.6	2319.8	267.7	191.4	284.5	194.0	125.4	120.3	81.5	55.6	41.4
75°	4296.9	1322.8	188.8	138.4	187.5	147.4	93.1	85.3	69.8	53.0	37.5
77.5°	2243.5	662.1	117.7	106.0	107.3	91.8	67.2	62.1	64.7	53.0	34.9
80°	430.6	131.9	71.1	77.6	58.2	58.2	49.1	51.7	56.9	42.7	29.7
82.5°	179.7	28.4	38.8	44.0	36.2	40.1	40.1	41.4	40.1	31.0	22.0
85°	0.0	0.0	16.8	18.1	24.6	24.6	20.7	20.7	20.7	18.1	12.9
87.5°	0.0	0.0	0.0	0.0	1.3	3.9	7.8	9.1	10.3	7.8	5.2
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°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	540.5	537.9	541.8	544.4	547.0	547.0	544.4	541.8	537.9	541.8	537.9
5°	499.1	503.0	509.5	512.1	514.6	509.5	506.9	499.1	492.7	494.0	491.4
7.5°	466.8	470.7	478.4	483.6	483.6	481.0	473.3	465.5	455.2	455.2	453.9
10°	437.1	442.2	451.3	457.7	460.3	457.7	450.0	439.6	430.6	430.6	426.7
12.5°	412.5	419.0	429.3	438.4	440.9	438.4	430.6	420.3	409.9	409.9	407.3
15°	391.8	399.6	411.2	421.5	425.4	421.5	412.5	399.6	389.2	390.5	386.6
17.5°	372.4	378.9	394.4	406.0	409.9	406.0	394.4	377.6	367.2	369.8	367.2
20°	350.4	358.2	373.7	386.6	390.5	386.6	373.7	355.6	345.3	345.3	346.5
22.5°	327.1	334.9	350.4	359.5	364.6	360.8	347.8	331.0	320.7	320.7	322.0
25°	306.5	310.3	322.0	331.0	332.3	328.4	318.1	305.2	297.4	301.3	302.6
27.5°	287.1	287.1	292.2	297.4	296.1	292.2	288.4	278.0	276.7	280.6	284.5
30°	266.4	259.9	257.3	253.4	252.2	250.9	254.7	254.7	257.3	262.5	266.4
32.5°	248.3	235.3	223.7	212.1	205.6	210.8	221.1	230.2	239.2	247.0	250.9
35°	227.6	206.9	187.5	172.0	161.6	169.4	186.2	203.0	218.5	228.9	235.3
37.5°	206.9	177.2	153.9	134.5	126.7	133.2	151.3	174.6	197.8	210.8	219.8
40°	184.9	147.4	120.3	104.7	97.0	103.4	121.5	144.8	175.9	192.7	204.3
42.5°	162.9	121.5	97.0	81.5	77.6	81.5	95.7	119.0	152.6	173.3	188.8
45°	140.9	100.9	77.6	65.9	62.1	65.9	77.6	97.0	130.6	153.9	172.0
47.5°	121.5	85.3	64.7	54.3	51.7	55.6	64.7	81.5	109.9	133.2	153.9
50°	106.0	75.0	55.6	46.6	44.0	47.8	55.6	68.5	93.1	113.8	135.8
52.5°	95.7	69.8	49.1	40.1	38.8	41.4	47.8	58.2	78.9	97.0	117.7
55°	93.1	69.8	45.3	36.2	34.9	37.5	42.7	50.4	68.5	84.1	102.2
57.5°	95.7	75.0	42.7	31.0	29.7	32.3	37.5	44.0	59.5	72.4	89.2
60°	95.7	76.3	37.5	24.6	23.3	25.9	31.0	38.8	53.0	63.4	77.6
62.5°	86.6	69.8	31.0	19.4	16.8	19.4	25.9	32.3	46.6	56.9	68.5
65°	75.0	59.5	25.9	14.2	11.6	14.2	20.7	27.2	40.1	49.1	62.1
67.5°	60.8	45.3	19.4	10.3	7.8	10.3	15.5	22.0	33.6	42.7	55.6
70°	45.3	32.3	15.5	9.1	7.8	9.1	14.2	20.7	29.7	38.8	51.7
72.5°	33.6	22.0	12.9	9.1	6.5	9.1	12.9	19.4	28.4	37.5	49.1
75°	28.4	18.1	11.6	7.8	6.5	7.8	11.6	18.1	25.9	34.9	46.6
77.5°	27.2	16.8	10.3	6.5	5.2	6.5	10.3	15.5	23.3	32.3	45.3
80°	23.3	14.2	9.1	5.2	3.9	5.2	9.1	12.9	18.1	24.6	34.9
82.5°	18.1	11.6	6.5	2.6	1.3	2.6	6.5	7.8	11.6	14.2	20.7
85°	11.6	6.5	2.6	0.0	0.0	0.0	2.6	5.2	5.2	6.5	10.3
87.5°	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.6	3.9
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-SA4D-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9	581.9
2.5°	545.7	547.0	549.6	553.4	562.5	570.2	578.0	588.4	593.5	593.5
5°	494.0	495.2	496.5	501.7	514.6	525.0	541.8	562.5	572.8	575.4
7.5°	453.9	456.5	459.0	462.9	475.9	490.1	512.1	550.9	570.2	574.1
10°	430.6	434.5	439.6	447.4	459.0	474.6	512.1	581.9	614.2	620.7
12.5°	412.5	419.0	424.1	433.2	447.4	472.0	547.0	669.8	726.7	742.2
15°	394.4	402.1	409.9	419.0	434.5	481.0	614.2	827.6	922.0	933.6
17.5°	376.3	385.3	395.7	406.0	425.4	503.0	720.2	1046.1	1178.0	1203.9
20°	355.6	367.2	381.5	394.4	416.4	537.9	867.7	1306.0	1471.5	1527.1
22.5°	333.6	347.8	364.6	381.5	406.0	580.6	1046.1	1585.3	1816.8	1853.0
25°	315.5	329.7	345.3	362.1	389.2	632.3	1262.0	1931.9	2142.6	2177.5
27.5°	298.7	312.9	327.1	342.7	372.4	699.6	1522.0	2300.4	2520.2	2556.4
30°	280.6	297.4	311.6	327.1	356.9	782.3	1821.9	2709.0	2917.2	2950.8
32.5°	265.1	281.9	296.1	311.6	345.3	872.8	2137.5	3071.1	3240.5	3240.5
35°	252.2	270.3	280.6	301.3	336.2	931.0	2436.2	3416.3	3544.3	3539.2
37.5°	237.9	259.9	267.7	281.9	324.6	937.5	2716.8	3781.0	3875.4	3841.7
40°	223.7	247.0	258.6	266.4	311.6	884.5	3024.5	4115.9	4196.0	4152.1
42.5°	210.8	228.9	245.7	254.7	303.9	791.4	3271.5	4474.0	4569.7	4530.9
45°	197.8	213.4	223.7	240.5	309.0	726.7	3483.6	4891.7	5059.8	5031.4
47.5°	184.9	197.8	204.3	230.2	344.0	697.0	3612.9	5538.3	5855.1	5831.8
50°	170.7	186.2	186.2	227.6	395.7	707.3	3725.4	6474.4	6964.5	6956.8
52.5°	156.5	173.3	170.7	247.0	435.8	755.2	3853.4	7300.7	8152.9	8224.0
55°	142.2	157.8	160.3	285.8	459.0	796.5	3358.1	7648.6	9167.9	9417.5
57.5°	126.7	135.8	166.8	315.5	451.3	916.8	2300.4	7711.9	9815.8	10351.1
60°	109.9	117.7	188.8	309.0	426.7	847.0	1448.2	7143.0	9723.9	10402.8
62.5°	95.7	108.6	199.1	272.8	434.5	734.5	923.3	6087.8	8848.5	9623.1
65°	84.1	104.7	181.0	247.0	439.6	497.8	623.3	4952.5	7993.8	8730.9
67.5°	75.0	116.4	148.7	219.8	377.6	350.4	428.0	3848.2	6721.4	7382.2
70°	68.5	119.0	121.5	188.8	292.2	225.0	281.9	2590.0	4633.1	5388.3
72.5°	62.1	87.9	91.8	151.3	188.8	137.1	182.3	1481.9	3377.5	3892.2
75°	59.5	59.5	63.4	98.3	104.7	99.6	117.7	884.5	2421.9	2798.2
77.5°	55.6	45.3	40.1	63.4	56.9	71.1	69.8	393.1	1050.0	1135.3
80°	44.0	32.3	27.2	40.1	38.8	47.8	41.4	32.3	47.8	46.6
82.5°	27.2	20.7	19.4	24.6	22.0	24.6	19.4	5.2	5.2	5.2
85°	12.9	11.6	10.3	10.3	11.6	10.3	7.8	2.6	1.3	1.3
87.5°	6.5	6.5	5.2	3.9	5.2	5.2	3.9	1.3	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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