

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: P636560

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636560
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-SA4B-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: 6616.6 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

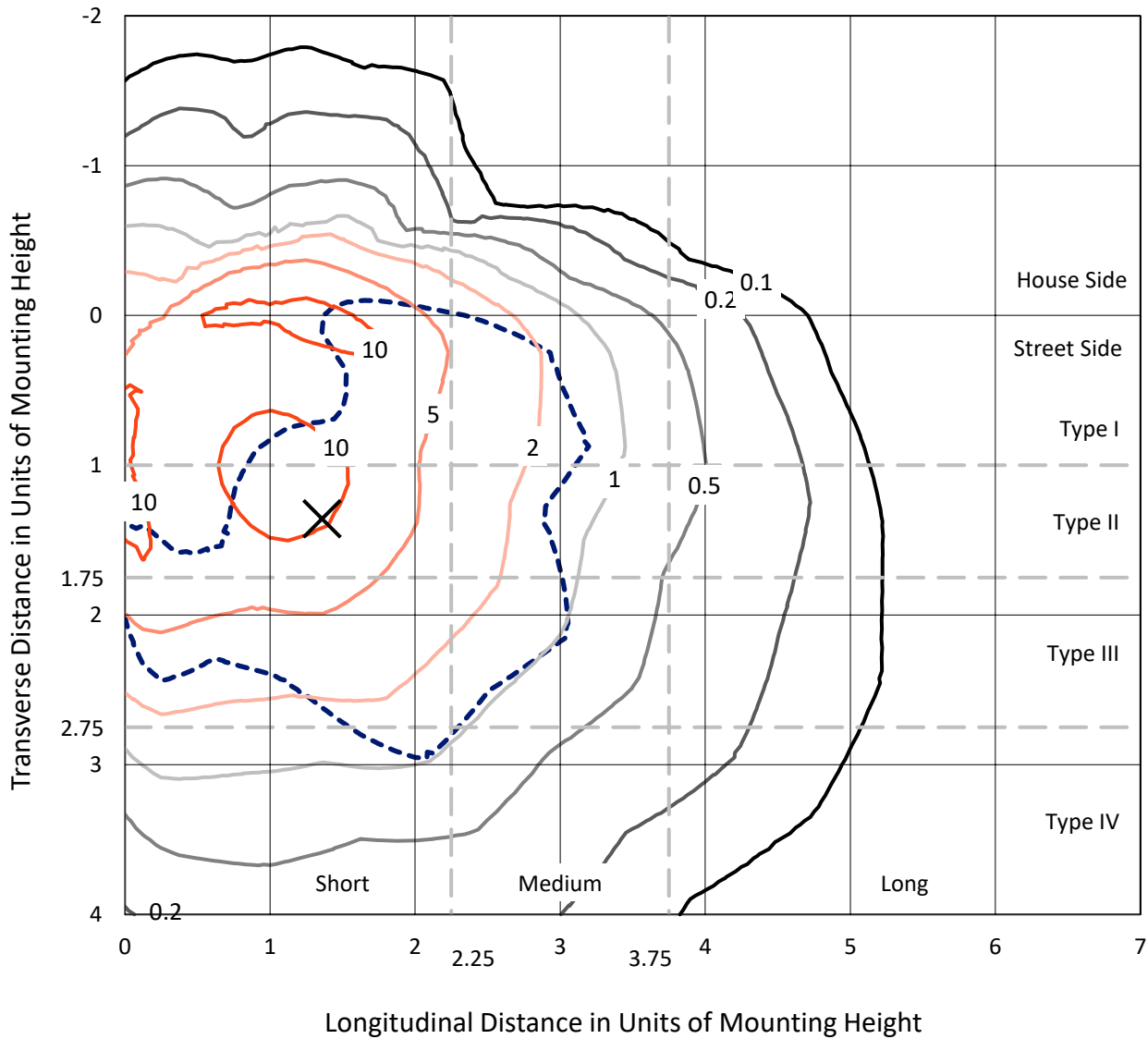
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

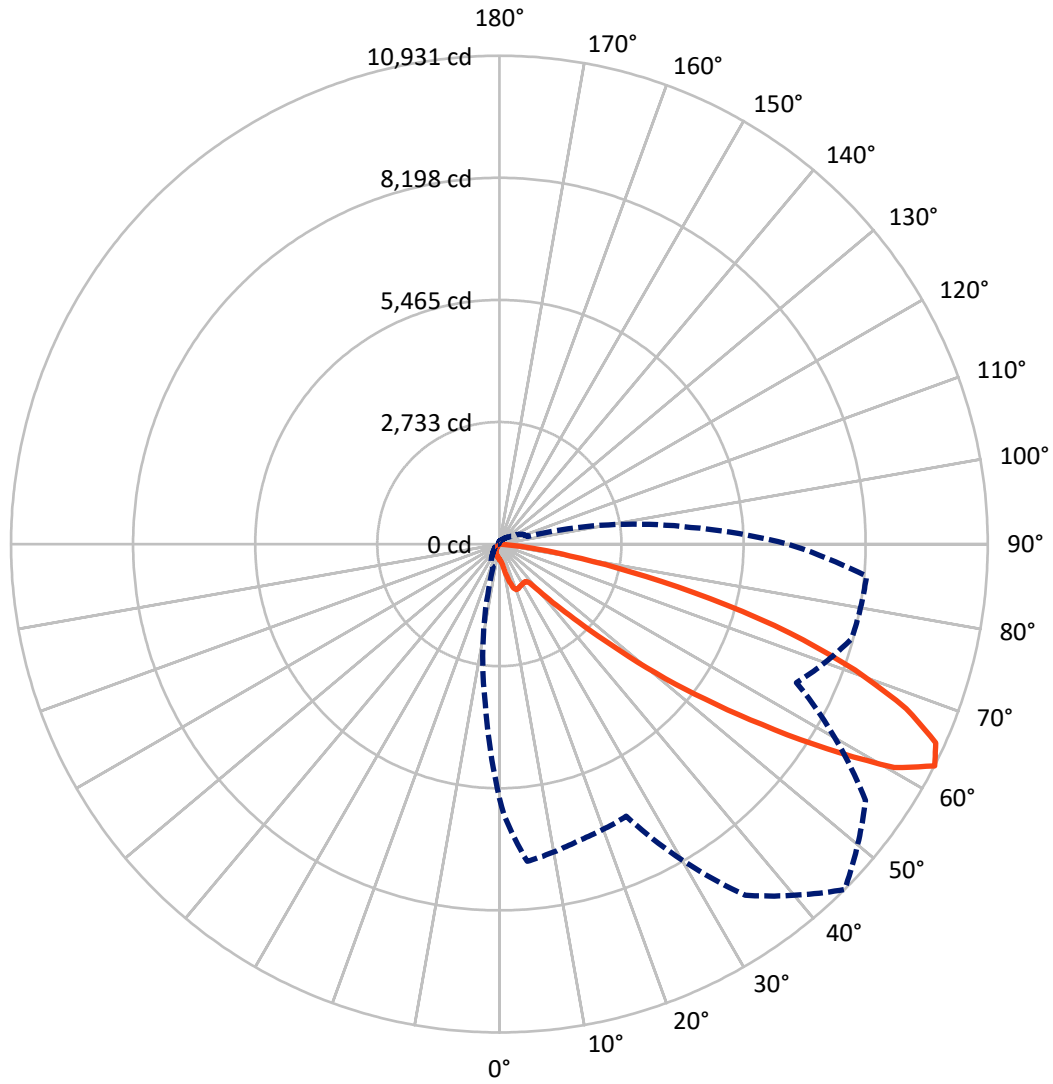
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 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	816.5	0.0	816.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5800.1	0.0	5800.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	6616.6	0.0	6616.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.5	0.5
10°-20°	115.4	1.7
20°-30°	250.8	3.8
30°-40°	411.6	6.2
40°-50°	756.7	11.4
50°-60°	1624.9	24.6
60°-70°	2182.6	33.0
70°-80°	1136.5	17.2
80°-90°	107.8	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°	6616.6	100.0
0°-180°	6616.6	100.0

Coefficient of Utilization



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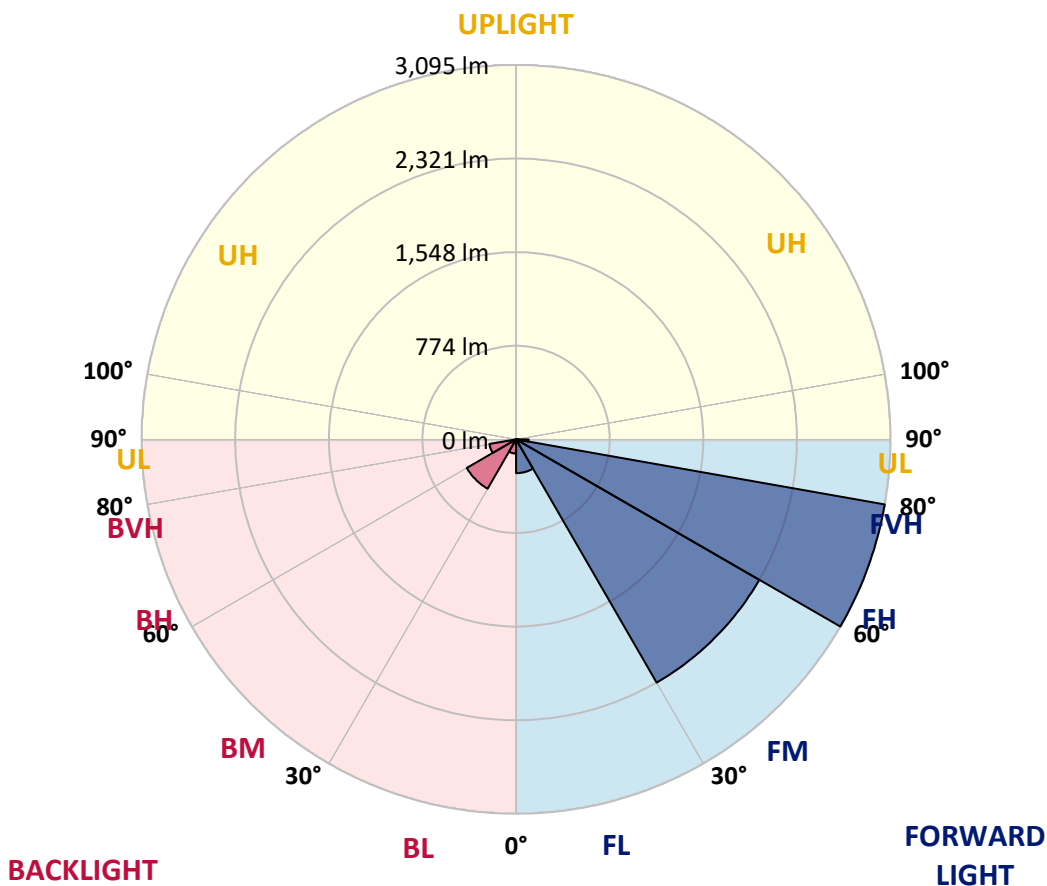
CATALOG NUMBER: GWS-SA4B-722-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.5	4.2			
FM (30°-60°)	2322.4	35.1			
FH (60°-80°)	3095.3	46.8			G2/5000
FVH (80°-90°)	103.0	1.6			G2/225
BL (0°-30°)	117.1	1.8	B1/500		
BM (30°-60°)	470.8	7.1	B1/1000		
BH (60°-80°)	223.7	3.4	B1/500		G1/500
BVH (80°-90°)	4.8	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	350.8	352.3	353.9	359.2	363.0	366.1	366.9	364.6	359.2	353.9	346.2
5°	340.1	341.6	347.0	361.5	376.0	387.5	391.3	389.0	376.0	359.2	341.6
7.5°	339.3	342.4	355.4	386.0	417.3	441.0	447.1	441.8	417.3	383.7	347.7
10°	366.9	372.2	391.3	446.3	503.7	545.7	562.5	539.6	500.6	439.5	380.6
12.5°	438.7	447.9	484.6	564.8	653.5	709.2	732.2	703.9	642.8	554.1	460.9
15°	551.8	565.6	620.6	740.6	845.3	895.0	902.6	886.6	815.5	717.7	592.3
17.5°	711.5	731.4	817.0	939.3	1015.0	1032.5	1030.2	1013.4	961.5	894.2	775.7
20°	902.6	926.3	1010.4	1111.3	1118.9	1098.3	1086.8	1076.9	1059.3	1047.8	955.3
22.5°	1095.2	1124.3	1212.1	1237.4	1168.6	1109.0	1080.7	1088.3	1114.3	1170.9	1133.4
25°	1287.0	1314.6	1397.1	1329.1	1191.5	1092.2	1056.2	1074.6	1136.5	1258.8	1306.9
27.5°	1511.0	1531.6	1580.5	1391.7	1195.3	1078.4	1043.2	1071.5	1147.2	1313.8	1497.2
30°	1744.1	1756.3	1732.6	1408.6	1182.3	1057.8	1030.2	1071.5	1165.5	1350.5	1640.1
32.5°	1915.3	1917.6	1840.4	1410.1	1175.5	1040.9	1018.0	1066.9	1183.1	1381.0	1778.5
35°	2091.8	2080.4	1943.6	1433.0	1193.8	1047.1	1027.2	1079.9	1210.6	1417.0	1900.0
37.5°	2270.7	2250.0	2059.0	1470.5	1241.2	1113.6	1101.3	1146.4	1254.9	1466.6	2033.7
40°	2454.1	2425.8	2179.0	1527.0	1346.7	1339.8	1381.8	1376.5	1376.5	1530.1	2171.3
42.5°	2678.0	2645.2	2356.3	1686.8	1592.8	1746.4	1861.0	1789.9	1658.5	1676.1	2350.2
45°	2973.8	2945.5	2663.5	1992.5	1978.7	2331.8	2486.2	2345.6	2018.5	2013.1	2649.0
47.5°	3446.9	3441.5	3153.4	2347.1	2451.0	3077.0	3375.0	3104.5	2428.9	2370.0	3214.5
50°	4111.8	4095.8	3764.1	2762.9	3012.8	4000.2	4532.2	4081.2	2924.9	2786.6	3971.9
52.5°	4860.8	4877.6	4619.3	3216.8	3609.7	5027.4	5768.0	5200.1	3463.7	3316.2	4925.0
55°	5566.2	5662.5	5594.5	3748.0	4192.8	6161.6	7125.4	6427.6	4130.9	4009.4	5993.5
57.5°	6118.0	6389.4	6866.3	4519.9	4878.4	7488.4	8640.9	7758.2	4909.7	5135.2	7447.9
60°	6148.6	6507.8	7615.3	6134.9	5760.4	8626.4	10154.2	9058.2	6134.1	7046.6	8587.4
62.5°	5687.8	6072.9	7127.6	6868.6	6721.1	9594.7	10930.7	10005.9	7338.6	8166.3	8249.6
65°	5160.4	5549.4	6583.5	6036.3	6609.5	9553.5	10733.5	10028.1	7447.9	7405.1	7645.1
67.5°	4363.3	4712.5	5648.8	5343.1	6092.1	9092.6	9822.5	9396.0	6861.7	6925.9	7032.9
70°	3184.7	3521.0	4390.0	4405.3	5320.1	8261.8	8439.9	8381.1	6319.0	6387.1	6081.4
72.5°	2300.5	2584.0	3333.8	3612.7	4247.1	6928.2	6805.1	7032.1	5421.8	5688.5	4884.5
75°	1653.9	1866.4	2445.7	3142.7	3366.6	5145.1	4871.5	5446.2	4350.3	4898.3	3672.4
77.5°	671.0	745.9	962.2	2117.0	2212.6	3461.4	2982.2	3955.9	3101.4	3218.4	1780.0
80°	27.5	30.6	39.7	1092.9	1517.1	1947.4	1595.8	2114.8	2048.3	1296.2	420.4
82.5°	3.1	3.1	6.9	314.9	664.2	1074.6	752.0	1218.3	1037.1	549.5	191.1
85°	0.8	0.8	1.5	35.9	155.9	172.0	101.6	373.7	482.3	224.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	6.9	7.6	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°	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	346.2	342.4	337.8	333.2	330.9	324.8	322.5	321.0	319.5	320.2	320.2
5°	334.8	326.3	316.4	306.5	301.1	295.0	292.0	290.4	291.2	294.2	294.2
7.5°	333.2	317.2	295.8	282.8	276.7	272.1	269.0	267.5	268.3	272.1	273.6
10°	358.4	330.2	292.0	269.8	262.9	258.3	255.3	253.0	251.4	254.5	255.3
12.5°	412.7	373.7	310.3	268.3	256.0	249.9	247.6	243.0	240.7	242.3	243.0
15°	525.1	457.8	347.0	274.4	249.9	243.0	239.2	235.4	231.6	230.8	231.6
17.5°	671.8	575.5	402.8	288.9	245.3	236.9	231.6	226.2	220.9	220.1	219.3
20°	853.7	719.9	480.7	311.8	241.5	231.6	223.9	216.3	209.4	207.1	207.1
22.5°	1019.5	894.2	580.9	340.1	236.2	223.9	214.8	205.6	197.9	194.1	193.4
25°	1222.1	1079.2	700.8	373.0	228.5	214.0	204.1	194.9	187.2	182.7	181.1
27.5°	1426.1	1274.0	836.9	415.8	219.3	204.1	194.9	186.5	178.1	172.7	171.2
30°	1624.1	1484.2	989.7	469.3	212.5	194.1	186.5	178.1	170.4	162.0	159.7
32.5°	1836.6	1699.0	1160.9	528.9	207.1	187.2	178.8	171.2	161.3	153.6	149.8
35°	2041.4	1920.6	1349.7	587.0	201.8	181.1	172.0	164.3	153.6	145.2	139.9
37.5°	2247.7	2146.1	1546.9	622.1	194.1	172.7	164.3	158.2	146.0	136.0	129.9
40°	2466.3	2379.2	1760.1	607.6	187.2	163.6	159.0	152.1	138.3	126.9	119.2
42.5°	2706.3	2601.6	1977.2	551.8	181.1	155.9	151.3	144.4	131.5	117.7	107.8
45°	3008.2	2845.4	2155.3	467.7	184.2	148.3	139.1	137.6	125.3	107.8	95.5
47.5°	3527.1	3219.9	2293.6	413.5	204.8	139.9	129.2	133.0	120.0	97.8	84.1
50°	4321.2	3840.5	2422.8	409.7	236.2	136.0	120.0	129.9	114.6	87.9	74.1
52.5°	5077.9	4471.0	2505.3	443.3	263.7	146.0	110.8	126.1	110.8	81.0	67.3
55°	5801.6	4834.8	2357.8	467.7	289.7	175.8	103.9	120.0	106.2	77.2	65.0
57.5°	6582.0	4996.8	1856.4	517.4	308.0	201.0	105.5	110.8	100.1	74.9	64.2
60°	6815.1	4789.7	1120.4	582.4	298.1	208.6	116.9	98.6	91.7	70.3	61.9
62.5°	6452.8	4298.3	661.1	530.4	289.7	197.2	133.7	90.9	83.3	64.2	57.3
65°	5910.9	3631.1	431.1	447.9	307.2	175.8	142.2	87.1	75.7	58.1	50.4
67.5°	5291.9	2924.9	301.9	264.4	283.5	158.2	120.0	86.4	68.0	48.9	41.3
70°	4457.3	2190.4	212.5	175.0	236.2	140.6	93.2	84.1	59.6	39.7	32.1
72.5°	3443.8	1371.1	158.2	113.1	168.1	114.6	74.1	71.1	48.1	32.9	24.5
75°	2539.7	781.9	111.6	81.8	110.8	87.1	55.0	50.4	41.3	31.3	22.2
77.5°	1326.0	391.3	69.5	62.7	63.4	54.3	39.7	36.7	38.2	31.3	20.6
80°	254.5	78.0	42.0	45.9	34.4	34.4	29.0	30.6	33.6	25.2	17.6
82.5°	106.2	16.8	22.9	26.0	21.4	23.7	23.7	24.5	23.7	18.3	13.0
85°	0.0	0.0	9.9	10.7	14.5	14.5	12.2	12.2	12.2	10.7	7.6
87.5°	0.0	0.0	0.0	0.0	0.8	2.3	4.6	5.3	6.1	4.6	3.1
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°	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	319.5	317.9	320.2	321.8	323.3	323.3	321.8	320.2	317.9	320.2	317.9
5°	295.0	297.3	301.1	302.7	304.2	301.1	299.6	295.0	291.2	292.0	290.4
7.5°	275.9	278.2	282.8	285.8	285.8	284.3	279.7	275.1	269.0	269.0	268.3
10°	258.3	261.4	266.7	270.6	272.1	270.6	266.0	259.9	254.5	254.5	252.2
12.5°	243.8	247.6	253.7	259.1	260.6	259.1	254.5	248.4	242.3	242.3	240.7
15°	231.6	236.2	243.0	249.2	251.4	249.2	243.8	236.2	230.0	230.8	228.5
17.5°	220.1	223.9	233.1	240.0	242.3	240.0	233.1	223.2	217.1	218.6	217.1
20°	207.1	211.7	220.9	228.5	230.8	228.5	220.9	210.2	204.1	204.1	204.8
22.5°	193.4	197.9	207.1	212.5	215.5	213.2	205.6	195.7	189.5	189.5	190.3
25°	181.1	183.4	190.3	195.7	196.4	194.1	188.0	180.4	175.8	178.1	178.8
27.5°	169.7	169.7	172.7	175.8	175.0	172.7	170.4	164.3	163.6	165.8	168.1
30°	157.4	153.6	152.1	149.8	149.0	148.3	150.6	150.6	152.1	155.1	157.4
32.5°	146.7	139.1	132.2	125.3	121.5	124.6	130.7	136.0	141.4	146.0	148.3
35°	134.5	122.3	110.8	101.6	95.5	100.1	110.1	120.0	129.2	135.3	139.1
37.5°	122.3	104.7	90.9	79.5	74.9	78.7	89.4	103.2	116.9	124.6	129.9
40°	109.3	87.1	71.1	61.9	57.3	61.1	71.8	85.6	103.9	113.9	120.8
42.5°	96.3	71.8	57.3	48.1	45.9	48.1	56.6	70.3	90.2	102.4	111.6
45°	83.3	59.6	45.9	39.0	36.7	39.0	45.9	57.3	77.2	90.9	101.6
47.5°	71.8	50.4	38.2	32.1	30.6	32.9	38.2	48.1	65.0	78.7	90.9
50°	62.7	44.3	32.9	27.5	26.0	28.3	32.9	40.5	55.0	67.3	80.2
52.5°	56.6	41.3	29.0	23.7	22.9	24.5	28.3	34.4	46.6	57.3	69.5
55°	55.0	41.3	26.7	21.4	20.6	22.2	25.2	29.8	40.5	49.7	60.4
57.5°	56.6	44.3	25.2	18.3	17.6	19.1	22.2	26.0	35.2	42.8	52.7
60°	56.6	45.1	22.2	14.5	13.8	15.3	18.3	22.9	31.3	37.4	45.9
62.5°	51.2	41.3	18.3	11.5	9.9	11.5	15.3	19.1	27.5	33.6	40.5
65°	44.3	35.2	15.3	8.4	6.9	8.4	12.2	16.0	23.7	29.0	36.7
67.5°	35.9	26.7	11.5	6.1	4.6	6.1	9.2	13.0	19.9	25.2	32.9
70°	26.7	19.1	9.2	5.3	4.6	5.3	8.4	12.2	17.6	22.9	30.6
72.5°	19.9	13.0	7.6	5.3	3.8	5.3	7.6	11.5	16.8	22.2	29.0
75°	16.8	10.7	6.9	4.6	3.8	4.6	6.9	10.7	15.3	20.6	27.5
77.5°	16.0	9.9	6.1	3.8	3.1	3.8	6.1	9.2	13.8	19.1	26.7
80°	13.8	8.4	5.3	3.1	2.3	3.1	5.3	7.6	10.7	14.5	20.6
82.5°	10.7	6.9	3.8	1.5	0.8	1.5	3.8	4.6	6.9	8.4	12.2
85°	6.9	3.8	1.5	0.0	0.0	0.0	1.5	3.1	3.1	3.8	6.1
87.5°	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.5	2.3
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-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9	343.9
2.5°	322.5	323.3	324.8	327.1	332.5	337.0	341.6	347.7	350.8	350.8
5°	292.0	292.7	293.5	296.5	304.2	310.3	320.2	332.5	338.6	340.1
7.5°	268.3	269.8	271.3	273.6	281.3	289.7	302.7	325.6	337.0	339.3
10°	254.5	256.8	259.9	264.4	271.3	280.5	302.7	343.9	363.0	366.9
12.5°	243.8	247.6	250.7	256.0	264.4	279.0	323.3	395.9	429.5	438.7
15°	233.1	237.7	242.3	247.6	256.8	284.3	363.0	489.1	544.9	551.8
17.5°	222.4	227.8	233.9	240.0	251.4	297.3	425.7	618.3	696.3	711.5
20°	210.2	217.1	225.5	233.1	246.1	317.9	512.8	771.9	869.7	902.6
22.5°	197.2	205.6	215.5	225.5	240.0	343.2	618.3	937.0	1073.8	1095.2
25°	186.5	194.9	204.1	214.0	230.0	373.7	745.9	1141.8	1266.4	1287.0
27.5°	176.5	185.0	193.4	202.5	220.1	413.5	899.6	1359.6	1489.6	1511.0
30°	165.8	175.8	184.2	193.4	210.9	462.4	1076.9	1601.2	1724.2	1744.1
32.5°	156.7	166.6	175.0	184.2	204.1	515.9	1263.4	1815.2	1915.3	1915.3
35°	149.0	159.7	165.8	178.1	198.7	550.3	1439.9	2019.2	2094.9	2091.8
37.5°	140.6	153.6	158.2	166.6	191.8	554.1	1605.7	2234.7	2290.5	2270.7
40°	132.2	146.0	152.9	157.4	184.2	522.8	1787.6	2432.7	2480.1	2454.1
42.5°	124.6	135.3	145.2	150.6	179.6	467.7	1933.6	2644.4	2701.0	2678.0
45°	116.9	126.1	132.2	142.2	182.7	429.5	2059.0	2891.3	2990.6	2973.8
47.5°	109.3	116.9	120.8	136.0	203.3	411.9	2135.4	3273.4	3460.6	3446.9
50°	100.9	110.1	110.1	134.5	233.9	418.1	2201.9	3826.7	4116.4	4111.8
52.5°	92.5	102.4	100.9	146.0	257.6	446.3	2277.5	4315.1	4818.8	4860.8
55°	84.1	93.2	94.8	168.9	271.3	470.8	1984.8	4520.7	5418.7	5566.2
57.5°	74.9	80.2	98.6	186.5	266.7	541.9	1359.6	4558.1	5801.6	6118.0
60°	65.0	69.5	111.6	182.7	252.2	500.6	856.0	4221.9	5747.4	6148.6
62.5°	56.6	64.2	117.7	161.3	256.8	434.1	545.7	3598.2	5229.9	5687.8
65°	49.7	61.9	107.0	146.0	259.9	294.2	368.4	2927.2	4724.8	5160.4
67.5°	44.3	68.8	87.9	129.9	223.2	207.1	253.0	2274.5	3972.7	4363.3
70°	40.5	70.3	71.8	111.6	172.7	133.0	166.6	1530.8	2738.4	3184.7
72.5°	36.7	52.0	54.3	89.4	111.6	81.0	107.8	875.9	1996.3	2300.5
75°	35.2	35.2	37.4	58.1	61.9	58.8	69.5	522.8	1431.5	1653.9
77.5°	32.9	26.7	23.7	37.4	33.6	42.0	41.3	232.3	620.6	671.0
80°	26.0	19.1	16.0	23.7	22.9	28.3	24.5	19.1	28.3	27.5
82.5°	16.0	12.2	11.5	14.5	13.0	14.5	11.5	3.1	3.1	3.1
85°	7.6	6.9	6.1	6.1	6.9	6.1	4.6	1.5	0.8	0.8
87.5°	3.8	3.8	3.1	2.3	3.1	3.1	2.3	0.8	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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