

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: P641015

Luminaire Tested: GWS-SA5F-722-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641015
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-SA5F-722-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19079.8 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

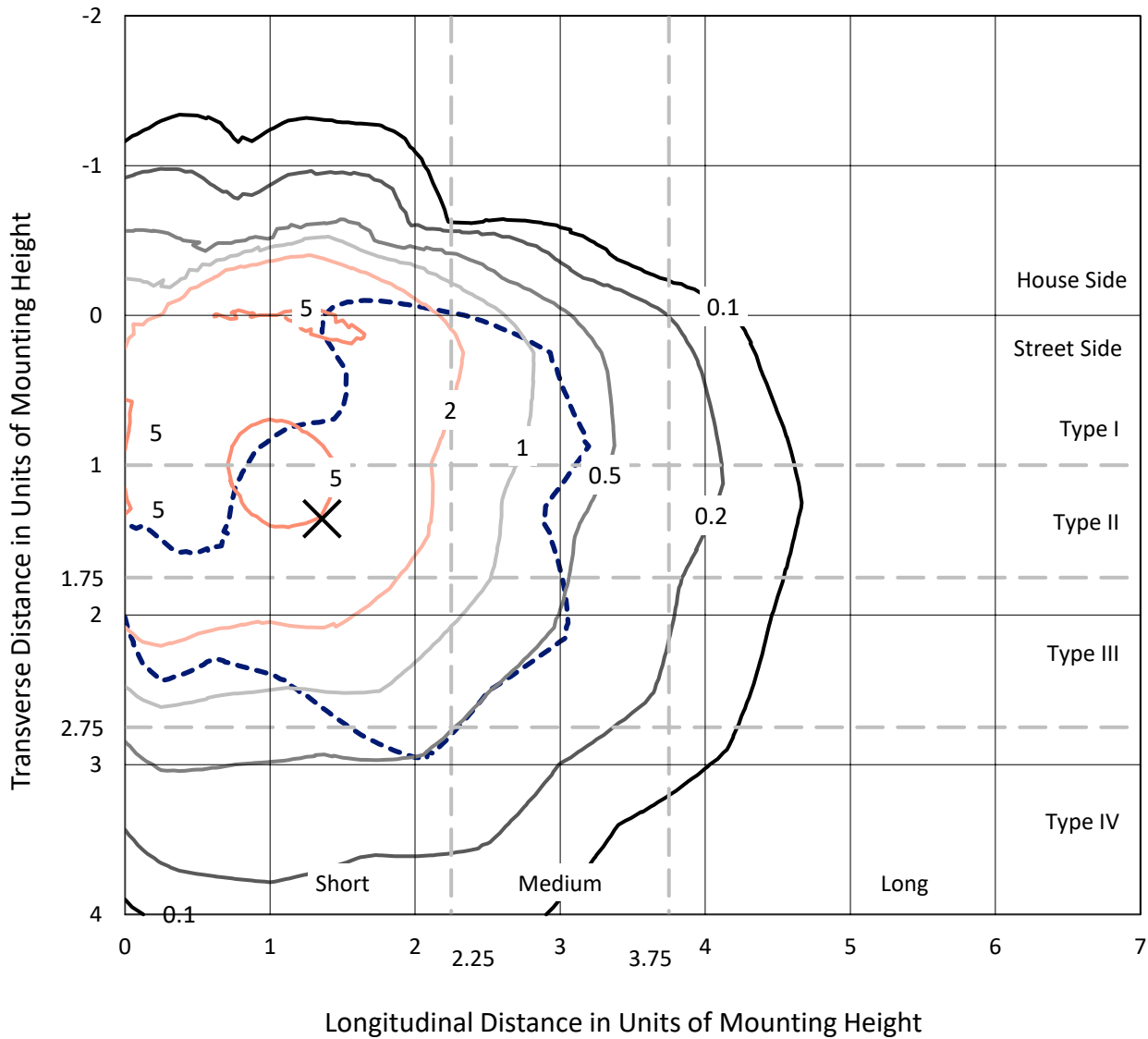
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

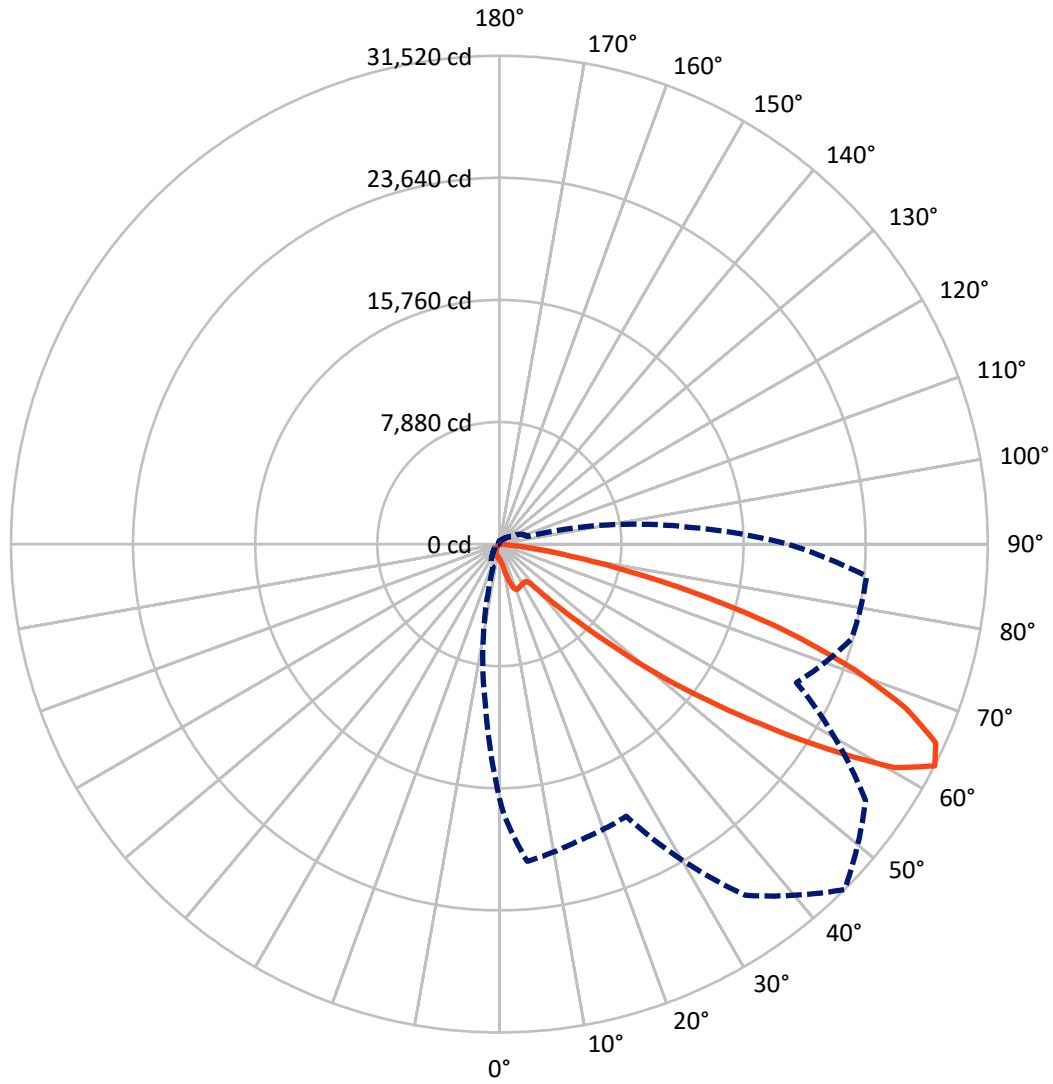
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2354.4	0.0	2354.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16725.4	0.0	16725.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	19079.8	0.0	19079.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	0.5
10°-20°	332.6	1.7
20°-30°	723.1	3.8
30°-40°	1186.9	6.2
40°-50°	2181.9	11.4
50°-60°	4685.7	24.6
60°-70°	6293.7	33.0
70°-80°	3277.2	17.2
80°-90°	310.7	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°	19079.8	100.0
0°-180°	19079.8	100.0

Coefficient of Utilization



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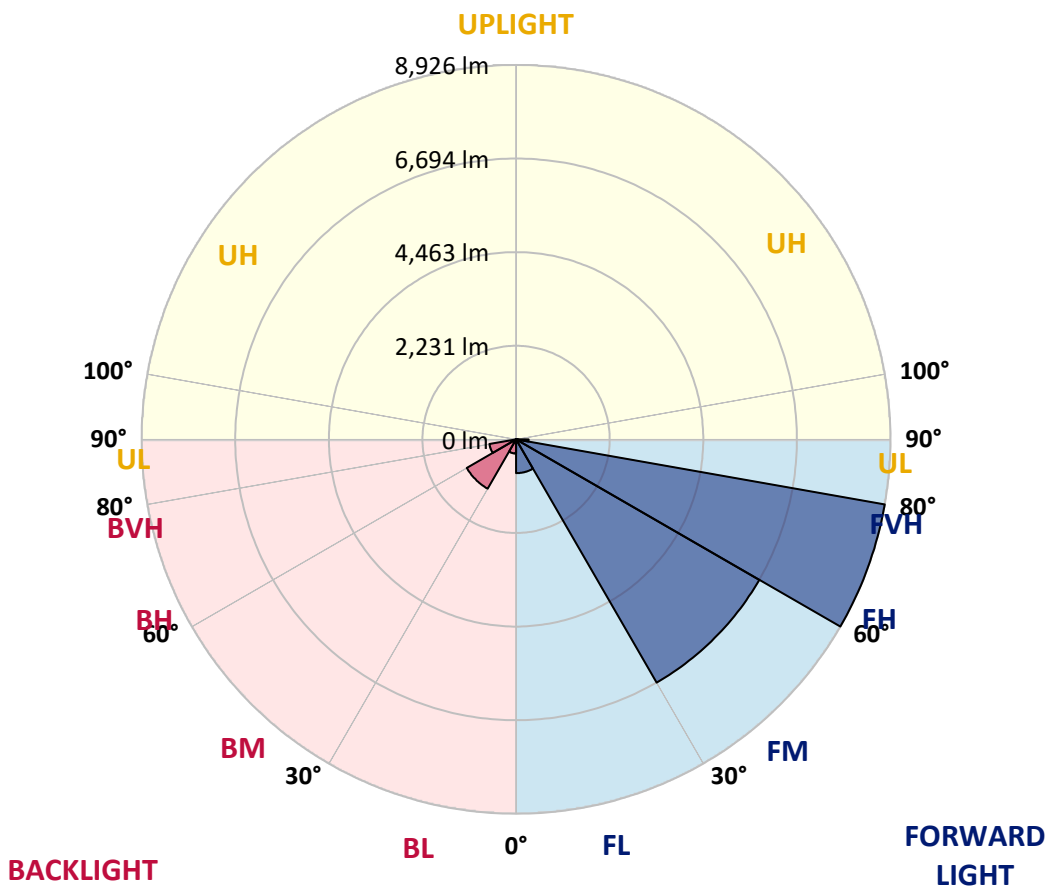
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.0	4.2			
FM (30°-60°)	6696.8	35.1			
FH (60°-80°)	8925.7	46.8			G4/12000
FVH (80°-90°)	296.9	1.6			G3/500
BL (0°-30°)	337.7	1.8	B1/500		
BM (30°-60°)	1357.7	7.1	B2/2500		
BH (60°-80°)	645.1	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	1011.6	1016.0	1020.4	1035.8	1046.8	1055.7	1057.9	1051.3	1035.8	1020.4	998.4
5°	980.7	985.1	1000.6	1042.4	1084.3	1117.4	1128.4	1121.8	1084.3	1035.8	985.1
7.5°	978.5	987.3	1024.8	1113.0	1203.3	1271.6	1289.3	1273.8	1203.3	1106.4	1002.8
10°	1057.9	1073.3	1128.4	1287.1	1452.4	1573.6	1622.1	1555.9	1443.5	1267.2	1097.5
12.5°	1265.0	1291.5	1397.3	1628.7	1884.3	2045.2	2111.3	2029.8	1853.5	1597.8	1328.9
15°	1591.2	1630.9	1789.6	2135.6	2437.5	2580.8	2602.8	2556.5	2351.6	2069.5	1708.0
17.5°	2051.8	2109.1	2356.0	2708.6	2926.8	2977.5	2970.8	2922.4	2772.5	2578.6	2236.9
20°	2602.8	2671.1	2913.5	3204.5	3226.5	3167.0	3133.9	3105.3	3054.6	3021.5	2754.9
22.5°	3158.2	3241.9	3495.4	3568.1	3369.7	3197.8	3116.3	3138.3	3213.3	3376.4	3268.4
25°	3711.3	3790.7	4028.7	3832.6	3435.9	3149.4	3045.8	3098.7	3277.2	3629.8	3768.7
27.5°	4357.1	4416.6	4557.6	4013.3	3446.9	3109.7	3008.3	3089.9	3308.0	3788.5	4317.4
30°	5029.3	5064.5	4996.2	4061.8	3409.4	3050.2	2970.8	3089.9	3360.9	3894.3	4729.5
32.5°	5522.9	5529.6	5307.0	4066.2	3389.6	3001.7	2935.6	3076.6	3411.6	3982.4	5128.5
35°	6032.0	5999.0	5604.5	4132.3	3442.5	3019.3	2962.0	3114.1	3491.0	4086.0	5478.9
37.5°	6547.8	6488.3	5937.3	4240.3	3579.1	3211.1	3175.8	3305.8	3618.8	4229.3	5864.5
40°	7076.7	6995.1	6283.3	4403.4	3883.3	3863.4	3984.6	3969.2	3969.2	4412.2	6261.2
42.5°	7722.4	7627.7	6794.6	4864.0	4592.9	5035.9	5366.5	5161.5	4782.4	4833.1	6777.0
45°	8575.3	8493.8	7680.6	5745.5	5705.9	6724.1	7169.3	6763.7	5820.5	5805.0	7638.7
47.5°	9939.5	9924.1	9093.2	6768.1	7067.9	8872.9	9732.4	8952.2	7004.0	6834.3	9269.6
50°	11856.9	11810.6	10854.2	7967.1	8687.7	11535.2	13069.1	11768.8	8434.3	8035.4	11453.6
52.5°	14016.7	14065.2	13320.3	9276.2	10409.0	14497.2	16632.8	14995.3	9988.0	9562.7	14201.9
55°	16050.9	16328.6	16132.5	10807.9	12090.5	17767.8	20546.9	18534.7	11912.0	11561.6	17282.9
57.5°	17642.1	18424.5	19799.7	13033.8	14067.4	21593.7	24917.2	22371.7	14157.8	14807.9	21476.9
60°	17730.3	18766.1	21959.6	17690.6	16610.7	24875.3	29280.9	26120.5	17688.4	20319.9	24762.9
62.5°	16401.3	17512.1	20553.5	19806.4	19381.0	27667.6	31520.0	28853.3	21161.7	23548.6	23788.8
65°	14880.7	16002.4	18984.3	17406.3	19059.2	27548.6	30951.4	28917.2	21476.9	21353.5	22045.5
67.5°	12582.0	13589.2	16288.9	15407.4	17567.2	26219.7	28324.4	27094.6	19786.5	19971.6	20280.2
70°	9183.6	10153.3	12659.1	12703.2	15341.3	23824.0	24337.6	24167.9	18221.8	18417.9	17536.3
72.5°	6633.7	7451.4	9613.4	10417.8	12247.0	19978.3	19623.4	20278.0	15634.4	16403.5	14085.1
75°	4769.2	5381.9	7052.4	9062.4	9708.1	14836.6	14047.6	15704.9	12544.5	14124.7	10589.7
77.5°	1935.0	2151.0	2774.7	6104.8	6380.3	9981.4	8599.6	11407.3	8943.4	9280.6	5132.9
80°	79.3	88.2	114.6	3151.6	4374.7	5615.5	4601.7	6098.2	5906.4	3737.8	1212.1
82.5°	8.8	8.8	19.8	908.0	1915.2	3098.7	2168.6	3513.0	2990.7	1584.6	551.0
85°	2.2	2.2	4.4	103.6	449.6	495.9	293.1	1077.7	1390.7	647.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	19.8	22.0	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°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	998.4	987.3	974.1	960.9	954.3	936.7	930.0	925.6	921.2	923.4	923.4
5°	965.3	941.1	912.4	883.8	868.3	850.7	841.9	837.5	839.7	848.5	848.5
7.5°	960.9	914.6	852.9	815.4	797.8	784.6	775.8	771.4	773.6	784.6	789.0
10°	1033.6	952.1	841.9	778.0	758.1	744.9	736.1	729.5	725.1	733.9	736.1
12.5°	1190.1	1077.7	894.8	773.6	738.3	720.7	714.1	700.8	694.2	698.6	700.8
15°	1514.1	1320.1	1000.6	791.2	720.7	700.8	689.8	678.8	667.8	665.6	667.8
17.5°	1937.2	1659.5	1161.4	833.1	707.4	683.2	667.8	652.4	636.9	634.7	632.5
20°	2461.7	2076.1	1386.2	899.2	696.4	667.8	645.7	623.7	603.9	597.3	597.3
22.5°	2940.0	2578.6	1675.0	980.7	681.0	645.7	619.3	592.8	570.8	559.8	557.6
25°	3524.0	3111.9	2021.0	1075.5	659.0	617.1	588.4	562.0	540.0	526.7	522.3
27.5°	4112.5	3673.9	2413.3	1198.9	632.5	588.4	562.0	537.7	513.5	498.1	493.7
30°	4683.3	4280.0	2854.0	1353.2	612.7	559.8	537.7	513.5	491.5	467.2	460.6
32.5°	5295.9	4899.2	3347.7	1525.1	597.3	540.0	515.7	493.7	465.0	443.0	432.0
35°	5886.6	5538.4	3892.1	1692.6	581.8	522.3	495.9	473.8	443.0	418.7	403.3
37.5°	6481.6	6188.5	4460.7	1794.0	559.8	498.1	473.8	456.2	420.9	392.3	374.7
40°	7112.0	6860.7	5075.6	1752.1	540.0	471.6	458.4	438.6	398.9	365.8	343.8
42.5°	7804.0	7502.0	5701.5	1591.2	522.3	449.6	436.4	416.5	379.1	339.4	310.7
45°	8674.5	8205.1	6215.0	1348.8	531.1	427.6	401.1	396.7	361.4	310.7	275.5
47.5°	10170.9	9285.0	6613.9	1192.3	590.6	403.3	372.5	383.5	346.0	282.1	242.4
50°	12460.8	11074.5	6986.3	1181.3	681.0	392.3	346.0	374.7	330.6	253.4	213.8
52.5°	14642.6	12892.8	7224.3	1278.3	760.3	420.9	319.6	363.6	319.6	233.6	193.9
55°	16729.7	13941.8	6799.0	1348.8	835.3	506.9	299.7	346.0	306.3	222.6	187.3
57.5°	18979.9	14409.0	5353.2	1492.0	888.2	579.6	304.1	319.6	288.7	216.0	185.1
60°	19652.1	13811.8	3230.9	1679.4	859.5	601.7	337.2	284.3	264.5	202.8	178.5
62.5°	18607.4	12394.7	1906.4	1529.5	835.3	568.6	385.7	262.3	240.2	185.1	165.3
65°	17044.9	10470.7	1243.0	1291.5	886.0	506.9	409.9	251.2	218.2	167.5	145.5
67.5°	15259.7	8434.3	870.5	762.5	817.6	456.2	346.0	249.0	196.1	141.0	119.0
70°	12853.1	6316.3	612.7	504.7	681.0	405.5	268.9	242.4	171.9	114.6	92.6
72.5°	9930.7	3953.8	456.2	326.2	484.9	330.6	213.8	205.0	138.8	94.8	70.5
75°	7323.5	2254.6	321.8	235.8	319.6	251.2	158.7	145.5	119.0	90.4	63.9
77.5°	3823.7	1128.4	200.6	180.7	182.9	156.5	114.6	105.8	110.2	90.4	59.5
80°	733.9	224.8	121.2	132.2	99.2	99.2	83.7	88.2	97.0	72.7	50.7
82.5°	306.3	48.5	66.1	74.9	61.7	68.3	68.3	70.5	68.3	52.9	37.5
85°	0.0	0.0	28.7	30.9	41.9	41.9	35.3	35.3	35.3	30.9	22.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	13.2	15.4	17.6	13.2	8.8
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°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	921.2	916.8	923.4	927.8	932.2	932.2	927.8	923.4	916.8	923.4	916.8
5°	850.7	857.3	868.3	872.7	877.1	868.3	863.9	850.7	839.7	841.9	837.5
7.5°	795.6	802.2	815.4	824.3	824.3	819.8	806.6	793.4	775.8	775.8	773.6
10°	744.9	753.7	769.2	780.2	784.6	780.2	767.0	749.3	733.9	733.9	727.3
12.5°	703.0	714.1	731.7	747.1	751.5	747.1	733.9	716.3	698.6	698.6	694.2
15°	667.8	681.0	700.8	718.5	725.1	718.5	703.0	681.0	663.4	665.6	659.0
17.5°	634.7	645.7	672.2	692.0	698.6	692.0	672.2	643.5	625.9	630.3	625.9
20°	597.3	610.5	636.9	659.0	665.6	659.0	636.9	606.1	588.4	588.4	590.6
22.5°	557.6	570.8	597.3	612.7	621.5	614.9	592.8	564.2	546.6	546.6	548.8
25°	522.3	528.9	548.8	564.2	566.4	559.8	542.2	520.1	506.9	513.5	515.7
27.5°	489.3	489.3	498.1	506.9	504.7	498.1	491.5	473.8	471.6	478.2	484.9
30°	454.0	443.0	438.6	432.0	429.8	427.6	434.2	434.2	438.6	447.4	454.0
32.5°	423.1	401.1	381.3	361.4	350.4	359.2	376.9	392.3	407.7	420.9	427.6
35°	387.9	352.6	319.6	293.1	275.5	288.7	317.4	346.0	372.5	390.1	401.1
37.5°	352.6	301.9	262.3	229.2	216.0	227.0	257.9	297.5	337.2	359.2	374.7
40°	315.2	251.2	205.0	178.5	165.3	176.3	207.2	246.8	299.7	328.4	348.2
42.5°	277.7	207.2	165.3	138.8	132.2	138.8	163.1	202.8	260.1	295.3	321.8
45°	240.2	171.9	132.2	112.4	105.8	112.4	132.2	165.3	222.6	262.3	293.1
47.5°	207.2	145.5	110.2	92.6	88.2	94.8	110.2	138.8	187.3	227.0	262.3
50°	180.7	127.8	94.8	79.3	74.9	81.5	94.8	116.8	158.7	193.9	231.4
52.5°	163.1	119.0	83.7	68.3	66.1	70.5	81.5	99.2	134.4	165.3	200.6
55°	158.7	119.0	77.1	61.7	59.5	63.9	72.7	86.0	116.8	143.3	174.1
57.5°	163.1	127.8	72.7	52.9	50.7	55.1	63.9	74.9	101.4	123.4	152.1
60°	163.1	130.0	63.9	41.9	39.7	44.1	52.9	66.1	90.4	108.0	132.2
62.5°	147.7	119.0	52.9	33.1	28.7	33.1	44.1	55.1	79.3	97.0	116.8
65°	127.8	101.4	44.1	24.2	19.8	24.2	35.3	46.3	68.3	83.7	105.8
67.5°	103.6	77.1	33.1	17.6	13.2	17.6	26.4	37.5	57.3	72.7	94.8
70°	77.1	55.1	26.4	15.4	13.2	15.4	24.2	35.3	50.7	66.1	88.2
72.5°	57.3	37.5	22.0	15.4	11.0	15.4	22.0	33.1	48.5	63.9	83.7
75°	48.5	30.9	19.8	13.2	11.0	13.2	19.8	30.9	44.1	59.5	79.3
77.5°	46.3	28.7	17.6	11.0	8.8	11.0	17.6	26.4	39.7	55.1	77.1
80°	39.7	24.2	15.4	8.8	6.6	8.8	15.4	22.0	30.9	41.9	59.5
82.5°	30.9	19.8	11.0	4.4	2.2	4.4	11.0	13.2	19.8	24.2	35.3
85°	19.8	11.0	4.4	0.0	0.0	0.0	4.4	8.8	8.8	11.0	17.6
87.5°	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6
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-SA5F-722-U-SLR-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8	991.8
2.5°	930.0	932.2	936.7	943.3	958.7	971.9	985.1	1002.8	1011.6	1011.6
5°	841.9	844.1	846.3	855.1	877.1	894.8	923.4	958.7	976.3	980.7
7.5°	773.6	778.0	782.4	789.0	811.0	835.3	872.7	938.9	971.9	978.5
10°	733.9	740.5	749.3	762.5	782.4	808.8	872.7	991.8	1046.8	1057.9
12.5°	703.0	714.1	722.9	738.3	762.5	804.4	932.2	1141.6	1238.6	1265.0
15°	672.2	685.4	698.6	714.1	740.5	819.8	1046.8	1410.5	1571.4	1591.2
17.5°	641.3	656.8	674.4	692.0	725.1	857.3	1227.6	1782.9	2007.7	2051.8
20°	606.1	625.9	650.1	672.2	709.7	916.8	1478.8	2225.9	2508.0	2602.8
22.5°	568.6	592.8	621.5	650.1	692.0	989.5	1782.9	2702.0	3096.5	3158.2
25°	537.7	562.0	588.4	617.1	663.4	1077.7	2151.0	3292.6	3651.8	3711.3
27.5°	509.1	533.3	557.6	584.0	634.7	1192.3	2594.0	3920.7	4295.4	4357.1
30°	478.2	506.9	531.1	557.6	608.3	1333.4	3105.3	4617.1	4972.0	5029.3
32.5°	451.8	480.4	504.7	531.1	588.4	1487.6	3643.0	5234.2	5522.9	5522.9
35°	429.8	460.6	478.2	513.5	573.0	1586.8	4152.1	5822.7	6040.9	6032.0
37.5°	405.5	443.0	456.2	480.4	553.2	1597.8	4630.4	6444.2	6605.1	6547.8
40°	381.3	420.9	440.8	454.0	531.1	1507.5	5154.9	7015.0	7151.6	7076.7
42.5°	359.2	390.1	418.7	434.2	517.9	1348.8	5575.8	7625.5	7788.5	7722.4
45°	337.2	363.6	381.3	409.9	526.7	1238.6	5937.3	8337.3	8623.8	8575.3
47.5°	315.2	337.2	348.2	392.3	586.2	1187.9	6157.7	9439.3	9979.2	9939.5
50°	290.9	317.4	317.4	387.9	674.4	1205.5	6349.4	11034.9	11870.1	11856.9
52.5°	266.7	295.3	290.9	420.9	742.7	1287.1	6567.6	12443.2	13895.5	14016.7
55°	242.4	268.9	273.3	487.1	782.4	1357.6	5723.5	13036.0	15625.6	16050.9
57.5°	216.0	231.4	284.3	537.7	769.2	1562.6	3920.7	13144.0	16729.7	17642.1
60°	187.3	200.6	321.8	526.7	727.3	1443.5	2468.4	12174.3	16573.2	17730.3
62.5°	163.1	185.1	339.4	465.0	740.5	1251.8	1573.6	10375.9	15081.2	16401.3
65°	143.3	178.5	308.5	420.9	749.3	848.5	1062.3	8440.9	13624.4	14880.7
67.5°	127.8	198.4	253.4	374.7	643.5	597.3	729.5	6558.8	11455.8	12582.0
70°	116.8	202.8	207.2	321.8	498.1	383.5	480.4	4414.4	7896.5	9183.6
72.5°	105.8	149.9	156.5	257.9	321.8	233.6	310.7	2525.7	5756.6	6633.7
75°	101.4	101.4	108.0	167.5	178.5	169.7	200.6	1507.5	4127.9	4769.2
77.5°	94.8	77.1	68.3	108.0	97.0	121.2	119.0	670.0	1789.6	1935.0
80°	74.9	55.1	46.3	68.3	66.1	81.5	70.5	55.1	81.5	79.3
82.5°	46.3	35.3	33.1	41.9	37.5	41.9	33.1	8.8	8.8	8.8
85°	22.0	19.8	17.6	17.6	19.8	17.6	13.2	4.4	2.2	2.2
87.5°	11.0	11.0	8.8	6.6	8.8	8.8	6.6	2.2	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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