

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: P640131

Luminaire Tested: GWS-SA5D-730-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-730-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16563.1 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

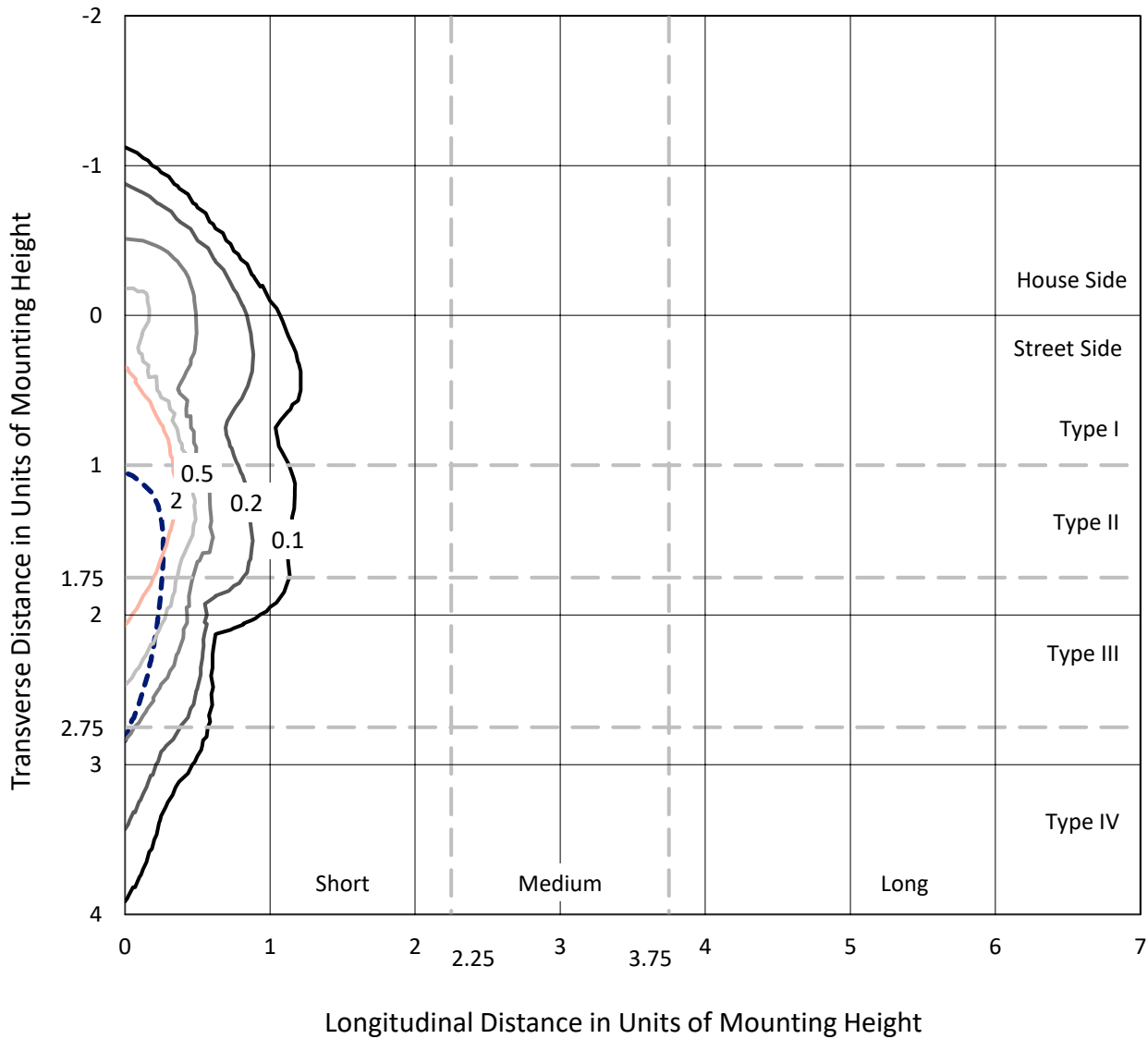
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

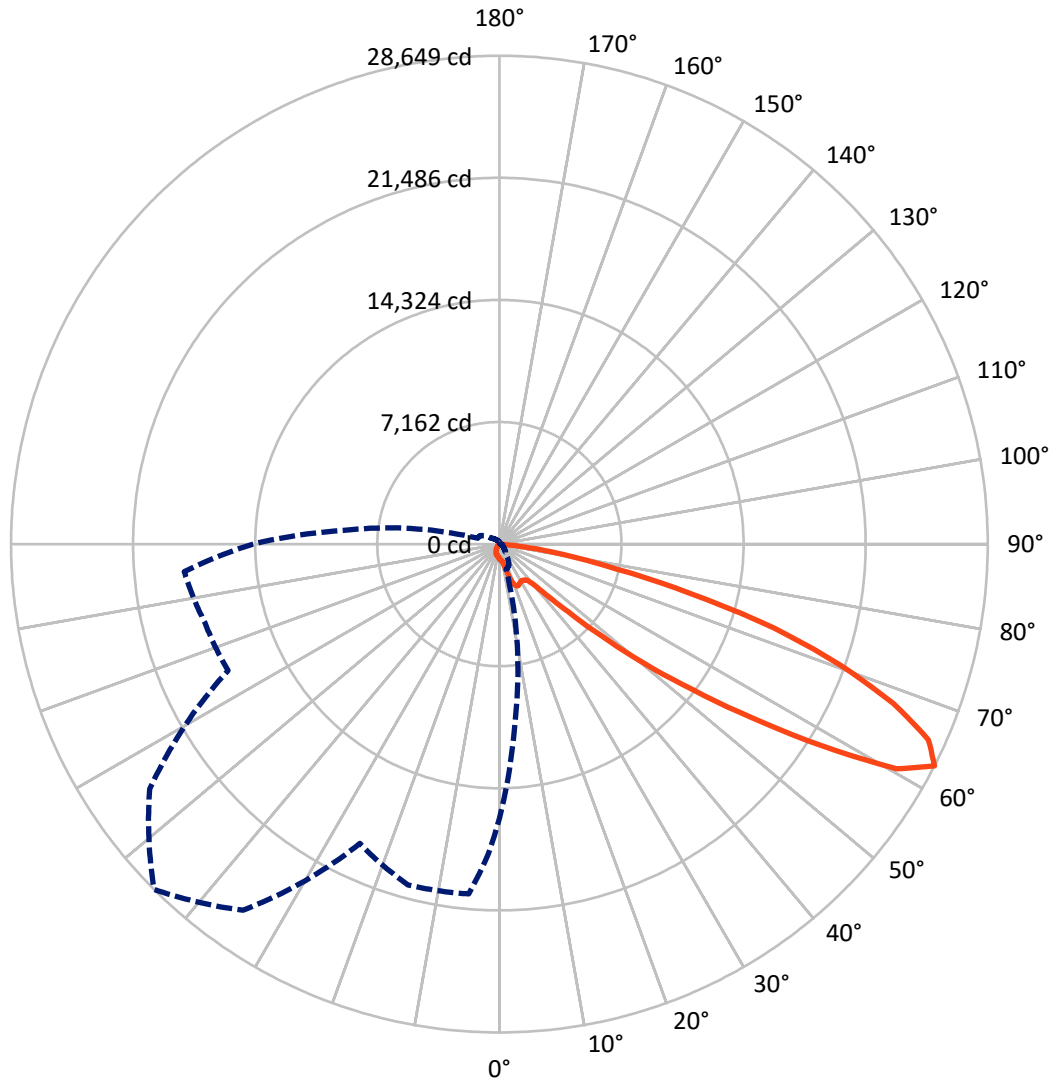
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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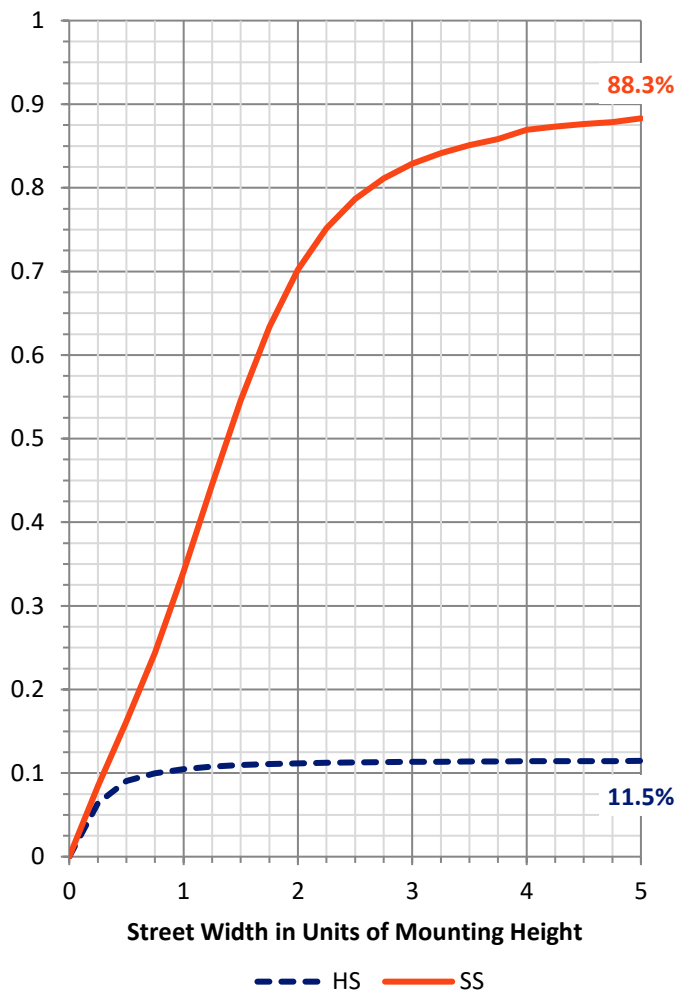
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.4	0.0	1924.4
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	14638.7	0.0	14638.7
	% Fixture	88.4	0.0	88.4
Total	Lumens	16563.1	0.0	16563.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	0.4
10°-20°	254.2	1.5
20°-30°	574.4	3.5
30°-40°	989.5	6.0
40°-50°	1866.5	11.3
50°-60°	4167.4	25.2
60°-70°	5573.9	33.7
70°-80°	2795.1	16.9
80°-90°	267.9	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°	16563.1	100.0
0°-180°	16563.1	100.0

Coefficient of Utilization



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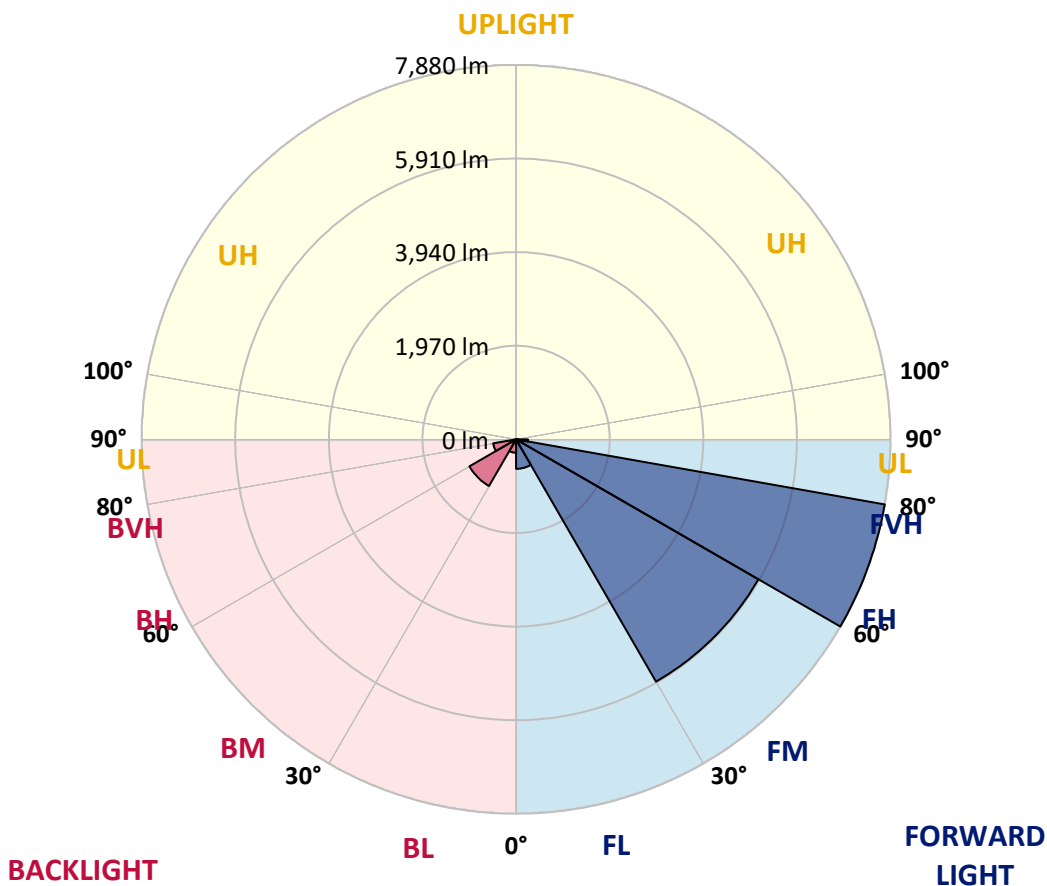
CATALOG NUMBER: GWS-SA5D-730-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.3	3.7			
FM (30°-60°)	5888.7	35.6			
FH (60°-80°)	7879.6	47.6			G4/12000
FVH (80°-90°)	250.1	1.5			G3/500
BL (0°-30°)	282.5	1.7	B1/500		
BM (30°-60°)	1134.7	6.9	B2/2500		
BH (60°-80°)	489.4	3.0	B1/500		G1/500
BVH (80°-90°)	17.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	849.2	847.2	843.3	831.5	821.7	815.8	804.1	804.1	802.1	798.2	790.3
5°	821.7	813.9	806.0	784.5	760.9	747.2	731.5	729.5	729.5	725.6	723.7
7.5°	778.6	770.7	760.9	725.6	704.1	690.3	676.6	674.6	668.8	668.8	668.8
10°	755.0	743.3	727.6	688.4	666.8	655.0	645.2	639.3	635.4	629.5	627.6
12.5°	806.0	784.5	751.1	680.5	651.1	635.4	623.6	619.7	608.0	600.1	594.2
15°	964.9	911.9	845.3	698.2	645.2	621.7	606.0	598.2	588.3	574.6	564.8
17.5°	1225.7	1149.2	1037.5	755.0	639.3	609.9	590.3	576.6	562.9	547.2	535.4
20°	1586.6	1472.8	1339.5	859.0	639.3	596.2	572.7	555.0	535.4	517.7	504.0
22.5°	2045.5	1931.7	1704.2	1035.5	647.2	578.5	551.1	527.6	504.0	488.3	472.6
25°	2559.3	2398.5	2186.7	1249.3	668.8	555.0	525.6	502.1	480.5	460.9	443.2
27.5°	3132.0	2957.4	2675.0	1553.2	715.8	531.5	498.1	476.6	456.9	437.3	413.8
30°	3659.5	3555.6	3267.3	1918.0	792.3	515.8	476.6	456.9	437.3	411.8	390.3
32.5°	4293.0	4108.6	3871.3	2333.8	894.3	500.1	458.9	431.5	415.8	392.2	368.7
35°	4930.3	4773.5	4461.6	2845.6	1008.0	484.4	437.3	411.8	398.1	370.7	345.2
37.5°	5587.3	5552.0	5244.1	3412.4	1119.8	466.8	411.8	396.2	382.4	351.0	321.6
40°	6234.5	6169.8	5885.4	4059.6	1188.5	447.1	390.3	380.5	364.8	329.5	296.1
42.5°	6854.2	6805.2	6528.7	4679.3	1178.7	429.5	368.7	356.9	345.2	309.9	268.7
45°	7615.2	7534.8	7185.7	5138.2	1078.6	449.1	347.1	327.5	325.6	292.2	241.2
47.5°	9039.0	8774.2	8181.9	5491.2	978.6	500.1	323.6	300.1	313.8	274.6	213.8
50°	11033.5	10721.6	9864.6	5765.8	976.7	566.8	319.7	274.6	304.0	260.8	190.2
52.5°	13037.8	12488.6	11447.3	5912.9	1049.2	615.8	355.0	249.1	292.2	247.1	172.6
55°	14957.7	13818.3	12110.1	5426.5	1106.1	668.8	419.7	235.3	270.6	231.4	162.8
57.5°	16787.5	14887.1	12398.4	4293.0	1296.3	690.3	458.9	241.2	239.3	211.8	154.9
60°	17038.5	14836.1	11816.0	2496.6	1429.7	653.1	443.2	268.7	209.8	188.3	141.2
62.5°	16089.3	13849.7	10488.3	1557.2	1327.7	639.3	394.2	305.9	190.2	166.7	123.6
65°	14647.9	12302.3	8744.8	1004.1	1006.1	709.9	345.2	300.1	178.5	147.1	105.9
67.5°	12394.5	10296.1	6889.5	672.7	568.7	606.0	302.0	205.9	174.5	125.5	82.4
70°	9046.8	7328.8	4485.2	449.1	339.3	484.4	253.0	147.1	164.7	103.9	58.8
72.5°	6613.0	4924.5	2504.4	294.2	192.2	282.4	186.3	105.9	127.5	76.5	41.2
75°	4759.7	3388.9	1429.7	188.3	127.5	154.9	121.6	72.6	82.4	60.8	37.3
77.5°	2290.6	1651.3	649.1	103.9	86.3	78.4	64.7	45.1	51.0	54.9	33.3
80°	86.3	64.7	49.0	51.0	54.9	35.3	29.4	23.5	29.4	37.3	17.7
82.5°	0.0	0.0	0.0	5.9	7.8	9.8	11.8	9.8	11.8	13.7	2.0
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°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	796.2	792.3	796.2	800.2	804.1	808.0	802.1	806.0	810.0	800.2	804.1
5°	733.5	731.5	743.3	749.2	757.0	760.9	757.0	757.0	755.0	743.3	743.3
7.5°	678.6	680.5	690.3	704.1	713.9	719.7	715.8	713.9	708.0	690.3	690.3
10°	637.4	637.4	653.1	664.8	678.6	684.4	680.5	674.6	668.8	651.1	649.1
12.5°	604.0	604.0	615.8	635.4	651.1	658.9	657.0	649.1	639.3	621.7	619.7
15°	572.7	570.7	588.3	606.0	627.6	637.4	633.5	627.6	609.9	594.2	590.3
17.5°	541.3	539.3	555.0	578.5	602.1	615.8	613.8	600.1	584.4	564.8	560.9
20°	509.9	506.0	525.6	549.1	572.7	586.4	582.5	570.7	551.1	531.5	527.6
22.5°	478.5	476.6	490.3	509.9	531.5	543.2	541.3	531.5	511.9	494.2	494.2
25°	443.2	443.2	453.0	466.8	482.4	488.3	490.3	486.4	474.6	464.8	464.8
27.5°	413.8	407.9	411.8	415.8	423.6	433.4	433.4	437.3	439.3	435.4	437.3
30°	390.3	380.5	374.6	366.7	362.8	366.7	370.7	384.4	398.1	406.0	409.9
32.5°	362.8	351.0	335.4	313.8	300.1	296.1	307.9	333.4	358.9	376.5	386.3
35°	335.4	319.7	290.3	258.9	241.2	235.3	249.1	278.5	315.7	347.1	360.9
37.5°	307.9	286.3	245.1	207.9	188.3	184.3	198.1	229.5	272.6	315.7	333.4
40°	276.5	251.0	202.0	162.8	147.1	143.2	154.9	186.3	231.4	280.4	307.9
42.5°	245.1	213.8	162.8	129.4	113.7	113.7	129.4	153.0	194.2	247.1	280.4
45°	213.8	180.4	133.4	103.9	94.1	96.1	105.9	129.4	162.8	217.7	249.1
47.5°	184.3	154.9	109.8	86.3	78.4	80.4	92.2	111.8	139.2	188.3	221.6
50°	158.9	131.4	96.1	72.6	66.7	70.6	82.4	100.0	123.6	166.7	194.2
52.5°	143.2	117.7	88.3	62.8	58.8	62.8	74.5	90.2	111.8	147.1	174.5
55°	135.3	115.7	88.3	56.9	51.0	54.9	66.7	82.4	100.0	133.4	156.9
57.5°	133.4	119.6	94.1	51.0	43.1	47.1	58.8	74.5	92.2	121.6	141.2
60°	125.5	113.7	92.2	41.2	33.3	39.2	49.0	64.7	84.3	113.7	131.4
62.5°	109.8	100.0	80.4	33.3	25.5	29.4	41.2	56.9	76.5	103.9	123.6
65°	90.2	80.4	62.8	21.6	15.7	19.6	31.4	49.0	66.7	94.1	111.8
67.5°	66.7	56.9	43.1	13.7	7.8	13.7	25.5	41.2	60.8	84.3	102.0
70°	41.2	33.3	23.5	7.8	5.9	11.8	23.5	39.2	54.9	78.4	96.1
72.5°	23.5	15.7	9.8	3.9	5.9	11.8	23.5	39.2	53.0	74.5	90.2
75°	17.7	9.8	3.9	2.0	3.9	9.8	21.6	35.3	51.0	70.6	86.3
77.5°	11.8	5.9	2.0	0.0	2.0	7.8	19.6	33.3	47.1	66.7	82.4
80°	2.0	0.0	0.0	0.0	0.0	5.9	17.7	29.4	43.1	58.8	72.6
82.5°	0.0	0.0	0.0	0.0	0.0	2.0	13.7	25.5	37.3	49.0	58.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.8	19.6	29.4	37.3	41.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8	19.6	23.5	27.5
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°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	802.1	813.9	813.9	821.7	831.5	849.2	859.0	872.7	882.5	892.3	896.2
5°	741.3	743.3	745.2	749.2	760.9	780.5	798.2	819.8	845.3	864.9	876.6
7.5°	690.3	690.3	690.3	696.2	708.0	721.7	739.4	768.8	798.2	821.7	841.3
10°	647.2	653.1	655.0	664.8	678.6	696.2	715.8	741.3	774.7	806.0	841.3
12.5°	619.7	625.6	635.4	645.2	658.9	678.6	700.1	733.5	802.1	866.8	941.4
15°	594.2	602.1	613.8	627.6	643.3	664.8	688.4	757.0	917.8	1039.4	1157.1
17.5°	566.8	578.5	594.2	608.0	627.6	651.1	680.5	813.9	1129.6	1331.6	1531.7
20°	531.5	547.2	564.8	586.4	609.9	637.4	680.5	931.5	1435.6	1725.8	1990.6
22.5°	498.1	513.8	535.4	562.9	590.3	617.8	690.3	1110.0	1829.8	2196.5	2531.9
25°	470.7	490.3	511.9	535.4	566.8	598.2	713.9	1361.0	2304.4	2777.0	3014.3
27.5°	445.2	468.7	490.3	509.9	537.4	572.7	766.8	1696.4	2865.2	3345.7	3532.0
30°	419.7	447.1	468.7	488.3	515.8	553.0	847.2	2123.9	3488.9	3955.7	3975.3
32.5°	398.1	423.6	449.1	468.7	494.2	537.4	959.0	2624.0	4128.2	4579.3	4394.9
35°	374.6	404.0	427.5	449.1	476.6	523.6	1088.4	3163.3	4773.5	5152.0	4812.7
37.5°	351.0	384.4	413.8	429.5	456.9	509.9	1182.6	3726.2	5432.4	5710.9	5179.4
40°	329.5	366.7	400.1	415.8	429.5	492.3	1196.3	4302.8	6101.2	6262.0	5524.6
42.5°	305.9	347.1	376.5	398.1	409.9	480.5	1113.9	4789.1	6662.0	6811.1	5975.6
45°	280.4	329.5	353.0	368.7	392.2	488.3	1008.0	5165.7	7303.3	7560.3	6718.9
47.5°	255.0	309.9	329.5	341.2	372.6	535.4	968.8	5416.7	8360.4	8893.8	7972.1
50°	231.4	292.2	313.8	311.8	368.7	596.2	1012.0	5606.9	9948.9	10576.5	9690.1
52.5°	205.9	272.6	298.1	290.3	398.1	643.3	1098.2	5758.0	11170.7	12549.4	11998.4
55°	184.3	251.0	274.6	272.6	453.0	678.6	1164.9	4961.7	11676.7	14383.1	14598.8
57.5°	168.7	227.5	247.1	280.4	488.3	678.6	1347.3	3522.2	11686.5	15732.4	18050.5
60°	154.9	205.9	219.6	307.9	474.6	643.3	1333.6	2157.3	10770.7	15640.2	19886.1
62.5°	143.2	186.3	204.0	315.7	419.7	637.4	1204.1	1337.5	9186.1	14449.8	18554.5
65°	133.4	170.6	196.1	290.3	380.5	682.5	811.9	961.0	7450.4	13092.7	17026.8
67.5°	123.6	156.9	207.9	237.3	345.2	609.9	586.4	682.5	5848.2	11604.2	15624.5
70°	115.7	149.0	219.6	194.2	302.0	476.6	415.8	517.7	4477.3	9682.2	13649.6
72.5°	109.8	139.2	184.3	153.0	245.1	368.7	290.3	376.5	2926.0	7558.3	11127.6
75°	103.9	127.5	135.3	123.6	182.4	241.2	219.6	253.0	1743.5	5524.6	8442.8
77.5°	102.0	119.6	109.8	100.0	123.6	143.2	166.7	170.6	851.1	2763.3	4424.4
80°	90.2	107.9	94.1	82.4	84.3	94.1	123.6	113.7	194.2	702.1	1180.6
82.5°	70.6	84.3	78.4	68.6	68.6	68.6	82.4	76.5	62.8	315.7	533.4
85°	49.0	58.8	58.8	54.9	53.0	53.0	51.0	49.0	17.7	19.6	29.4
87.5°	33.3	41.2	43.1	41.2	35.3	31.4	27.5	23.5	7.8	0.0	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-SA5D-730-U-SLL-W-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0	859.0
2.5°	910.0	915.9	915.9	908.0	902.1	886.4	870.8	855.1	851.1	849.2
5°	910.0	933.5	945.3	943.3	929.6	904.1	870.8	835.5	825.6	821.7
7.5°	896.2	941.4	976.7	982.5	957.0	911.9	851.1	798.2	784.5	778.6
10°	927.6	1015.9	1086.5	1096.3	1066.9	978.6	880.6	790.3	768.8	755.0
12.5°	1096.3	1241.4	1327.7	1368.9	1312.0	1200.2	1037.5	876.6	827.6	806.0
15°	1437.5	1643.4	1808.2	1808.2	1755.2	1557.2	1351.2	1090.4	1023.7	964.9
17.5°	1874.9	2133.7	2278.9	2263.2	2182.8	2043.5	1796.4	1421.8	1286.5	1225.7
20°	2373.0	2527.9	2561.3	2551.5	2516.2	2435.8	2265.1	1863.1	1680.7	1586.6
22.5°	2804.5	2763.3	2714.2	2675.0	2665.2	2688.7	2665.2	2355.3	2212.2	2045.5
25°	3096.7	2863.3	2716.2	2645.6	2678.9	2814.3	2961.3	2845.6	2731.9	2559.3
27.5°	3255.5	2851.5	2639.7	2567.2	2624.0	2816.2	3135.9	3332.0	3214.3	3132.0
30°	3341.8	2841.7	2590.7	2520.1	2606.4	2847.6	3257.5	3787.0	3790.9	3659.5
32.5°	3465.4	2904.5	2600.5	2535.8	2651.5	2941.7	3410.4	4249.8	4363.6	4293.0
35°	3604.6	3000.6	2645.6	2586.8	2729.9	3067.2	3581.1	4716.6	4953.9	4930.3
37.5°	3736.0	3108.4	2751.5	2694.6	2849.6	3175.1	3745.8	5175.5	5505.0	5587.3
40°	3873.3	3259.4	3077.1	3132.0	3218.3	3345.7	3892.9	5573.6	6111.0	6234.5
42.5°	4196.9	3783.1	4061.6	4165.5	4177.3	3914.5	4214.5	6083.5	6707.2	6854.2
45°	4918.6	4714.6	5512.8	5659.9	5583.4	4787.2	4989.2	6818.9	7540.6	7615.2
47.5°	5830.5	5924.7	7499.5	8007.4	7548.5	5816.8	5928.6	8366.3	9066.4	9039.0
50°	6893.5	7338.6	9754.8	10953.1	9854.8	7154.3	7011.1	10268.6	11117.8	11033.5
52.5°	8150.6	8982.1	12465.1	14167.4	13128.0	8658.5	8599.7	12788.7	13306.4	13037.8
55°	9733.2	10568.7	15583.3	17962.2	16483.5	10494.1	10696.1	15710.8	15810.8	14957.7
57.5°	12094.4	12637.7	19258.5	22314.0	19986.1	12988.7	14453.7	19599.8	18403.5	16787.5
60°	16381.5	15299.0	22810.2	26765.9	23712.3	16497.2	19409.6	21904.1	19266.4	17038.5
62.5°	17874.0	17558.2	25034.2	28648.6	26218.7	19378.2	20698.0	20598.0	18148.5	16089.3
65°	15612.8	16995.4	24636.0	27654.3	25897.1	18903.6	18574.1	19156.6	16889.5	14647.9
67.5°	14422.3	15673.6	23127.9	24910.6	24114.4	17293.5	16556.1	16397.2	14179.2	12394.5
70°	13222.1	14461.6	20941.2	21162.8	20792.2	14669.4	13700.6	12635.7	10598.1	9046.8
72.5°	11778.7	12461.2	17907.3	16856.1	16436.4	11521.8	11317.8	9515.5	7944.6	6613.0
75°	10272.5	10074.5	13961.5	11568.9	11882.6	8964.4	9558.7	6987.6	5820.7	4759.7
77.5°	7472.0	7324.9	9350.8	7026.8	7781.9	5871.7	5275.5	2788.8	2655.4	2290.6
80°	4169.4	5026.4	5050.0	3938.0	4912.7	3828.2	1319.9	92.2	58.8	86.3
82.5°	1937.6	2161.2	2737.8	1825.8	2802.5	1896.4	272.6	0.0	0.0	0.0
85°	627.6	917.8	768.8	268.7	678.6	641.3	45.1	0.0	0.0	0.0
87.5°	37.3	76.5	19.6	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

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