

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: STREETWORKS

Report Number: P387174

Luminaire Tested: GAW-SA2D-830-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387174  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-830-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9540 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

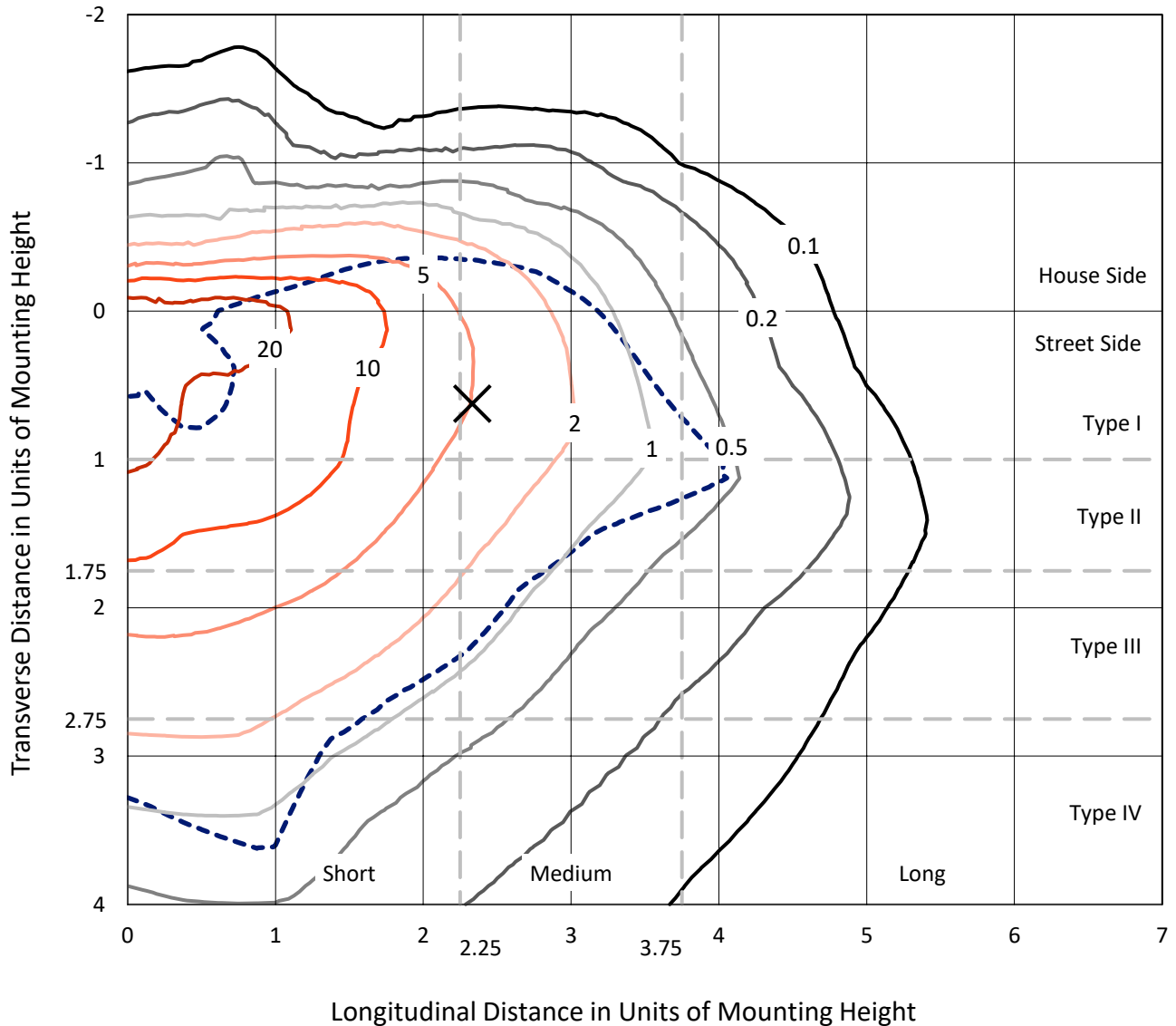
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

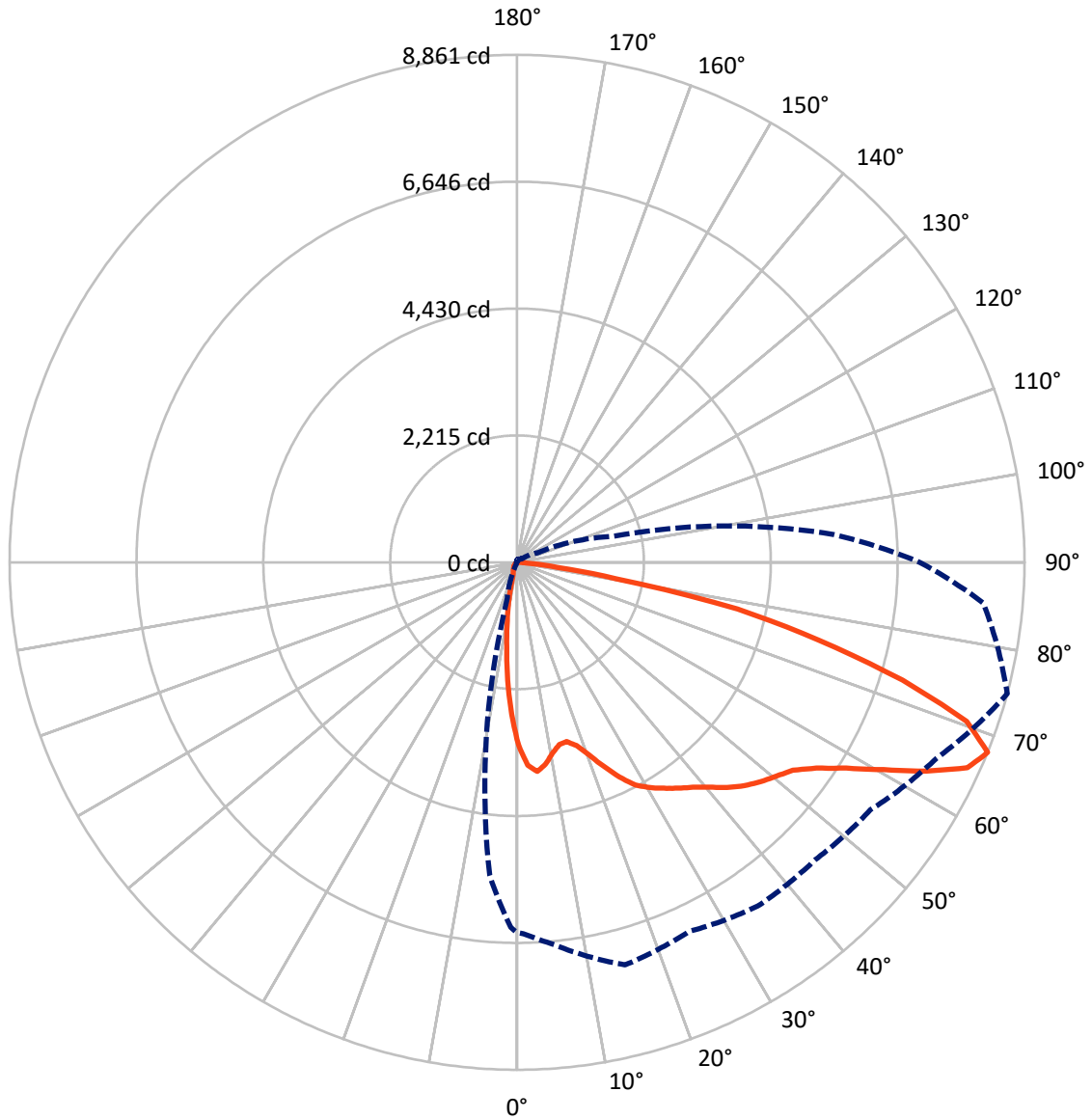
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 41.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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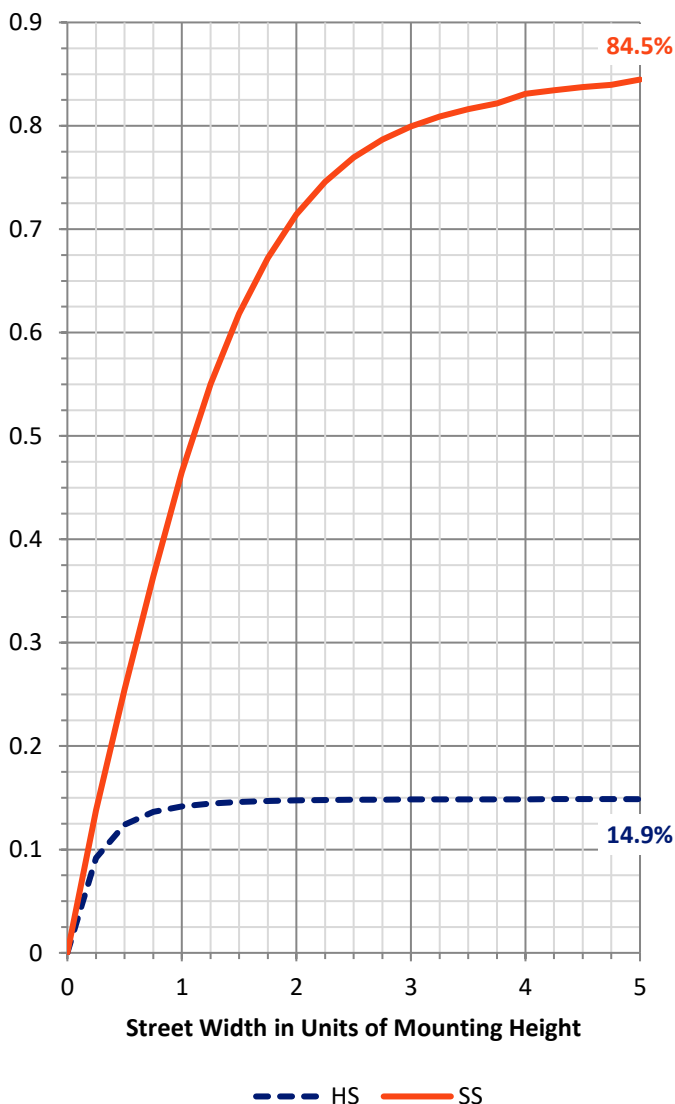
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1431.6	0.0	1431.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	8108.4	0.0	8108.4
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9540.0	0.0	9540.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.8	2.5
10°-20°	478.0	5.0
20°-30°	676.3	7.1
30°-40°	994.3	10.4
40°-50°	1429.1	15.0
50°-60°	2011.9	21.1
60°-70°	2349.7	24.6
70°-80°	1198.7	12.6
80°-90°	159.2	1.7
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°	9540.0	100.0
0°-180°	9540.0	100.0

**Coefficient of Utilization**

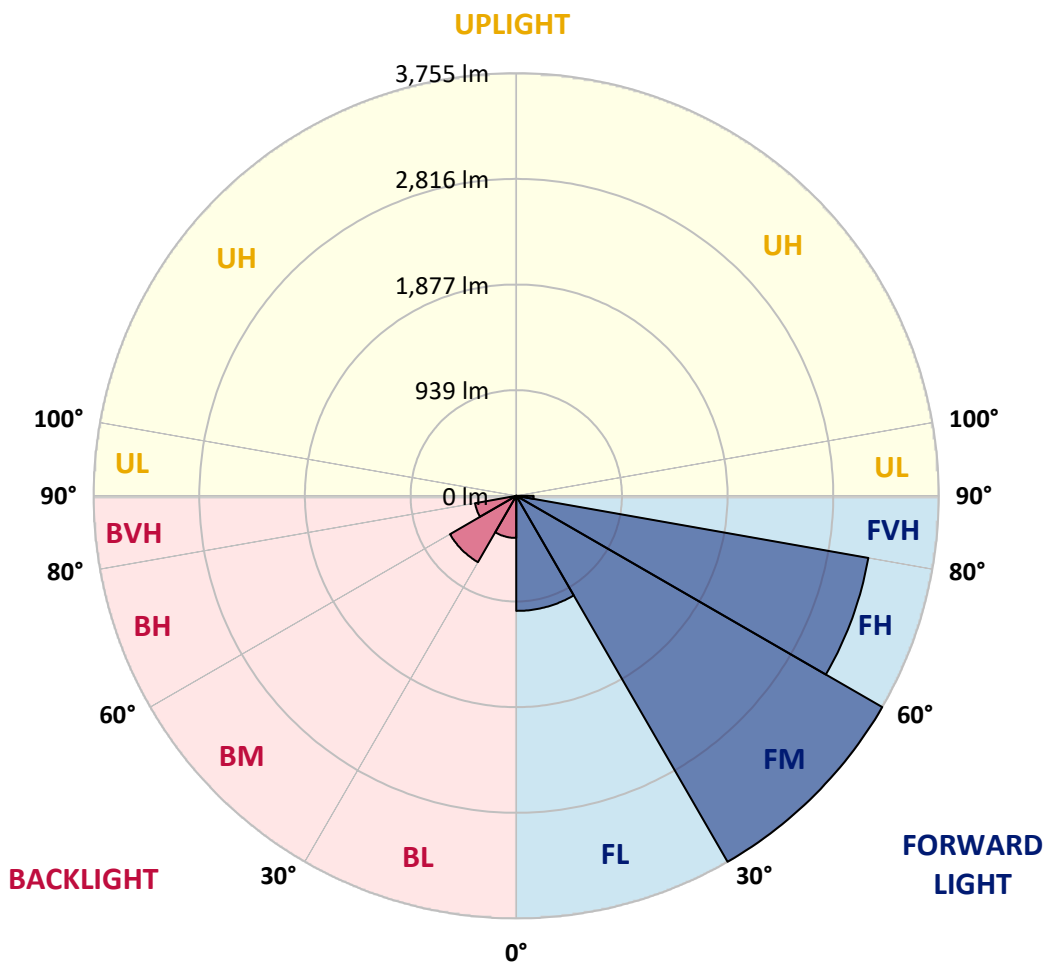


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1022.7	10.7			
FM (30°-60°)	3754.8	39.4			
FH (60°-80°)	3176.5	33.3			G2/5000
FVH (80°-90°)	154.4	1.6			G2/225
BL (0°-30°)	374.4	3.9	B1/500		
BM (30°-60°)	680.5	7.1	B1/1000		
BH (60°-80°)	371.8	3.9	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3469.4	3474.8	3502.8	3567.9	3638.9	3644.3	3692.2	3642.9	3626.2	3546.7	3464.4
5°	3495.6	3516.4	3612.7	3803.8	3969.7	4023.0	4061.0	3964.3	3862.6	3668.2	3460.8
7.5°	3284.6	3319.4	3470.8	3829.6	4126.0	4257.1	4282.0	4130.6	3881.6	3561.6	3249.8
10°	3014.3	3054.1	3236.7	3677.7	4084.9	4309.5	4343.9	4145.5	3787.6	3389.0	3021.5
12.5°	2795.6	2842.1	3028.8	3506.9	3943.5	4192.0	4259.8	4095.3	3706.2	3266.5	2865.6
15°	2694.8	2748.1	2944.3	3396.6	3786.6	3982.3	4038.4	3967.4	3661.0	3247.1	2829.5
17.5°	2752.7	2810.5	3013.0	3406.1	3639.3	3722.9	3768.1	3797.0	3661.0	3364.1	2935.2
20°	2989.9	3052.3	3266.5	3502.4	3517.3	3486.1	3534.5	3636.2	3703.5	3586.4	3189.2
22.5°	3318.0	3391.2	3633.0	3667.3	3457.7	3339.7	3346.0	3505.6	3780.8	3868.4	3541.7
25°	3718.0	3807.4	4053.3	3913.2	3482.5	3252.5	3250.2	3398.0	3856.2	4150.9	3934.4
27.5°	4115.2	4213.7	4429.7	4213.3	3585.1	3236.7	3232.1	3365.5	3929.9	4402.2	4363.3
30°	4448.3	4544.1	4730.3	4430.6	3695.8	3273.7	3252.0	3400.3	3973.7	4565.3	4676.0
32.5°	4719.4	4796.2	4946.7	4580.2	3814.2	3345.6	3298.6	3493.4	4048.3	4703.1	4963.5
35°	5017.7	5098.6	5158.7	4722.6	3947.1	3449.1	3381.7	3641.1	4163.1	4843.2	5278.4
37.5°	5358.0	5438.4	5431.2	4852.7	4115.6	3620.3	3577.4	3875.2	4341.6	4982.0	5630.0
40°	5691.0	5773.3	5714.5	4995.1	4313.6	3902.8	3871.2	4226.8	4580.7	5159.6	6042.2
42.5°	6002.9	6091.9	5966.3	5129.8	4549.5	4258.9	4313.1	4679.6	4879.8	5378.3	6397.4
45°	6254.1	6345.0	6177.3	5260.8	4798.0	4690.9	4854.1	5181.3	5239.6	5563.2	6637.4
47.5°	6436.7	6522.6	6323.7	5391.9	5116.2	5219.2	5503.5	5707.3	5564.5	5723.6	6807.7
50°	6553.3	6620.2	6366.7	5555.9	5533.8	5835.7	6180.0	6279.4	5870.5	5868.2	7014.7
52.5°	6627.4	6657.7	6398.3	5727.2	5969.4	6506.8	6842.5	6873.7	6185.4	6027.3	7293.6
55°	6882.8	6907.2	6622.5	5934.6	6329.6	7094.7	7441.8	7412.9	6542.0	6338.6	7622.6
57.5°	7318.4	7344.2	7085.7	6232.9	6621.1	7458.1	7876.1	7928.1	6960.0	6776.1	7975.1
60°	7537.1	7585.0	7492.9	6610.7	6903.6	7690.3	8172.1	8337.9	7482.5	7352.8	8316.7
62.5°	7338.8	7408.3	7542.1	7029.6	7184.2	7818.2	8264.3	8484.8	8017.5	8024.8	8527.3
65°	6942.9	6998.5	7225.3	7259.2	7346.9	7802.4	8036.5	8279.7	8345.2	8642.1	8516.0
67.5°	6464.7	6485.5	6678.0	7277.3	7111.0	7327.0	7352.3	7532.2	8086.2	8860.8	8173.9
70°	5776.5	5787.8	5955.9	6672.2	6110.9	6158.3	6120.8	6157.4	6951.9	8328.0	7310.3
72.5°	4648.9	4677.4	4916.5	5541.0	4451.9	4314.9	4609.6	4593.3	5353.9	7036.0	5429.4
75°	3422.9	3472.1	3833.2	4463.2	3124.6	2826.3	3041.4	3098.8	3806.1	5442.5	3395.3
77.5°	2396.5	2433.1	2782.9	3280.9	2261.4	2021.0	1943.3	2011.5	2512.2	3937.1	1710.5
80°	1380.6	1394.2	1617.4	1894.5	1523.9	1743.5	1579.5	1626.5	1505.3	1751.6	735.7
82.5°	903.4	905.7	992.9	1127.5	949.0	1102.7	816.2	1043.5	926.0	703.6	239.5
85°	488.1	490.8	575.7	800.4	537.3	303.7	178.5	366.5	572.6	161.3	65.5
87.5°	53.8	49.3	173.5	291.0	149.1	27.6	9.5	41.1	91.7	10.4	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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	3422.4	3384.9	3291.3	3192.4	3112.8	3038.3	2963.2	2871.5	2800.6	2786.1	2762.6
5°	3349.2	3230.3	3034.2	2837.2	2678.5	2478.3	2351.3	2252.4	2155.7	2149.8	2130.4
7.5°	3093.4	2937.0	2660.9	2388.4	2165.2	1974.4	1781.9	1653.1	1551.9	1516.2	1495.0
10°	2847.6	2671.8	2326.9	2016.0	1816.7	1648.2	1512.6	1377.9	1255.9	1171.8	1133.9
12.5°	2675.8	2481.5	2101.4	1833.4	1690.6	1530.7	1365.3	1197.1	1056.6	955.4	893.4
15°	2609.4	2402.0	2026.0	1761.1	1584.9	1382.4	1170.9	978.9	822.9	731.2	675.6
17.5°	2688.5	2447.2	2020.1	1673.0	1426.7	1175.0	941.4	714.5	567.6	498.0	462.3
20°	2889.1	2590.9	2017.8	1565.0	1238.7	929.2	637.7	470.0	381.0	342.1	325.4
22.5°	3172.9	2774.3	2035.9	1458.4	1043.0	663.9	440.2	345.3	299.6	278.8	269.3
25°	3538.1	3031.9	2087.0	1361.6	859.1	495.3	343.0	289.2	257.1	240.9	234.1
27.5°	3927.2	3328.4	2166.5	1277.6	709.5	395.0	293.7	247.7	224.6	213.3	207.0
30°	4248.1	3671.9	2247.0	1184.0	601.1	344.4	268.9	226.0	199.3	192.1	186.2
32.5°	4528.7	3931.7	2303.9	1099.5	530.1	306.0	243.1	202.0	183.9	169.9	163.6
35°	4819.3	4148.2	2302.1	1040.3	481.3	277.0	221.4	180.8	159.1	142.8	137.8
37.5°	5133.8	4392.7	2262.8	989.7	460.1	254.0	209.2	169.5	147.8	131.5	125.2
40°	5502.1	4649.4	2222.5	942.3	454.2	235.5	200.7	160.4	137.4	121.6	115.2
42.5°	5861.0	4880.8	2187.3	907.0	428.9	235.0	193.0	153.7	129.2	113.9	106.7
45°	6147.9	5096.3	2180.5	885.8	402.2	243.1	188.9	149.1	122.9	107.6	100.8
47.5°	6386.6	5330.4	2223.9	870.9	376.9	221.9	198.8	146.0	117.0	102.1	94.5
50°	6670.4	5617.8	2326.0	846.4	350.2	199.7	227.8	146.9	112.1	96.7	88.6
52.5°	7066.2	6015.5	2476.1	805.3	313.6	179.4	224.2	147.8	106.7	90.8	82.7
55°	7510.0	6512.2	2637.4	737.1	262.6	152.7	192.1	141.5	96.3	84.5	76.8
57.5°	7976.4	6962.8	2733.2	655.7	208.8	132.0	153.7	128.8	85.0	75.9	71.0
60°	8049.6	7134.0	2689.4	555.9	165.9	114.8	113.9	131.1	75.9	66.9	63.3
62.5°	7867.5	6918.9	2477.4	466.8	138.7	100.8	93.5	114.3	68.7	59.7	56.0
65°	7517.3	6337.3	2134.0	420.7	128.8	86.3	77.7	80.4	60.1	52.0	48.8
67.5°	7030.1	5560.9	1752.1	394.5	127.4	74.1	66.4	61.0	52.0	45.2	42.5
70°	6034.1	4632.6	1397.8	380.1	123.8	62.4	56.0	49.7	43.4	38.4	36.2
72.5°	4441.0	3282.8	1087.3	364.2	124.7	49.7	48.8	41.1	34.8	29.8	28.9
75°	2566.0	1875.5	713.1	295.1	118.9	38.4	40.7	28.9	24.4	20.8	20.8
77.5°	1367.5	1143.8	271.6	122.9	43.4	24.4	23.0	17.2	15.4	12.7	12.2
80°	596.1	503.4	81.8	34.3	24.0	13.1	8.6	7.7	6.8	5.4	5.0
82.5°	211.0	182.1	26.7	16.7	10.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.9	34.3	0.0	4.1	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°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2714.7	2704.7	2646.0	2648.3	2658.7	2673.6	2638.3	2654.6	2698.4	2740.5	2756.3
5°	2099.2	2101.4	2065.7	2087.9	2107.8	2121.3	2064.4	2065.3	2100.1	2147.5	2172.4
7.5°	1479.1	1475.5	1477.3	1530.2	1567.7	1540.6	1561.8	1488.2	1492.7	1526.6	1501.3
10°	1099.5	1049.8	1021.8	1061.6	1102.7	1087.8	1051.2	1027.2	1043.9	1081.4	1078.7
12.5°	864.1	792.7	750.6	722.2	756.1	728.0	727.1	706.4	683.8	687.8	747.9
15°	649.9	597.9	548.2	502.5	501.6	492.1	443.8	389.6	385.0	387.7	418.9
17.5°	447.0	429.3	409.0	369.7	359.3	319.5	272.5	250.8	240.0	244.9	255.3
20°	314.1	307.3	309.6	288.3	273.4	235.5	207.9	199.3	197.5	202.5	207.4
22.5°	260.3	248.1	246.7	237.3	222.3	194.8	179.9	174.9	172.6	177.2	180.8
25°	227.8	215.6	210.6	204.7	188.9	169.9	160.9	156.4	154.1	156.8	159.1
27.5°	200.7	189.4	184.8	180.8	165.4	151.8	144.6	140.5	138.7	139.6	141.9
30°	180.3	170.4	164.5	159.5	146.4	136.9	130.6	126.5	124.7	124.7	127.0
32.5°	159.1	153.7	148.2	141.9	129.7	123.4	117.0	112.5	110.7	111.2	113.0
35°	132.4	130.6	132.0	126.1	115.7	110.3	103.9	99.0	97.6	98.1	99.9
37.5°	117.5	109.4	114.3	111.2	105.3	98.1	89.9	85.4	83.2	84.5	85.4
40°	108.0	98.1	94.5	97.6	96.7	85.0	77.7	73.2	71.4	71.9	72.8
42.5°	99.9	88.1	80.0	79.5	85.0	74.1	66.4	62.4	60.1	60.1	61.0
45°	92.2	79.5	69.6	61.9	71.4	62.8	55.6	52.0	49.3	49.3	49.7
47.5°	86.3	72.3	60.6	50.6	53.8	51.5	45.6	42.0	39.3	39.3	39.8
50°	80.9	65.1	52.4	42.5	40.2	42.5	37.1	33.0	31.2	30.7	31.6
52.5°	75.0	57.8	44.7	36.2	31.6	32.1	28.9	26.2	24.0	24.0	24.9
55°	69.1	52.0	38.9	30.7	26.2	24.0	23.0	21.2	19.4	19.4	20.3
57.5°	63.3	45.6	33.0	25.3	20.8	19.0	19.0	17.6	16.3	16.3	17.2
60°	57.8	39.3	27.1	20.8	16.3	15.8	16.3	14.9	14.0	14.0	14.9
62.5°	51.5	33.4	22.1	17.2	13.1	12.7	14.0	13.1	12.2	12.2	13.1
65°	43.8	28.5	17.6	13.1	9.9	9.9	11.7	10.8	9.9	9.9	10.8
67.5°	37.1	24.0	13.6	9.5	7.2	7.7	9.9	9.0	8.6	8.6	9.5
70°	30.7	18.5	9.5	5.9	4.1	5.9	7.7	7.7	7.7	7.7	8.6
72.5°	23.0	12.7	5.4	2.3	1.8	4.1	6.3	7.2	6.8	6.8	8.1
75°	14.9	7.2	1.8	0.0	0.0	2.3	5.0	5.9	5.9	5.4	6.8
77.5°	8.6	2.3	0.0	0.0	0.0	0.0	3.2	2.7	2.3	1.8	3.2
80°	2.3	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: GAW-SA2D-830-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5	3200.5
2.5°	2820.0	2873.3	2948.3	3027.9	3150.3	3247.5	3342.9	3424.7	3456.3	3469.4
5°	2232.0	2310.2	2420.0	2561.0	2782.0	2980.9	3182.4	3385.3	3473.5	3495.6
7.5°	1601.6	1701.5	1841.1	2017.8	2276.8	2534.4	2815.9	3113.7	3250.2	3284.6
10°	1185.4	1307.4	1467.4	1653.6	1900.8	2165.6	2472.5	2812.8	2968.7	3014.3
12.5°	841.0	1006.0	1220.2	1446.6	1660.8	1897.2	2207.6	2582.7	2746.3	2795.6
15°	494.0	653.5	907.0	1210.2	1484.6	1724.1	2039.5	2464.8	2645.1	2694.8
17.5°	283.4	362.9	554.5	892.5	1264.9	1596.6	1986.6	2494.2	2706.6	2752.7
20°	216.5	241.8	319.5	574.8	1008.2	1471.5	1986.6	2660.5	2922.1	2989.9
22.5°	189.4	207.9	239.5	343.0	742.1	1337.2	2009.7	2900.9	3243.0	3318.0
25°	168.1	184.8	212.0	258.0	506.2	1177.7	2064.4	3196.0	3620.8	3718.0
27.5°	150.5	166.3	190.7	226.0	346.2	985.2	2138.0	3542.2	4037.5	4115.2
30°	134.7	149.6	171.7	196.6	267.1	766.9	2200.9	3868.4	4364.7	4448.3
32.5°	119.8	133.3	153.2	171.7	218.7	567.2	2207.6	4126.9	4636.3	4719.4
35°	105.7	118.0	136.0	150.5	181.2	447.9	2102.3	4351.1	4907.9	5017.7
37.5°	92.2	103.9	119.8	130.6	159.5	365.2	1941.5	4601.0	5256.3	5358.0
40°	79.5	89.9	106.2	113.4	150.9	280.6	1766.6	4863.1	5597.9	5691.0
42.5°	67.8	77.7	93.5	107.6	132.4	209.7	1577.7	5109.0	5905.3	6002.9
45°	56.5	66.9	82.7	113.9	109.8	156.8	1375.6	5272.1	6147.9	6254.1
47.5°	45.6	57.4	79.1	108.5	87.7	115.2	1215.7	5426.7	6331.9	6436.7
50°	36.6	48.4	89.0	96.7	71.9	88.1	1148.8	5565.0	6452.5	6553.3
52.5°	29.8	40.7	84.1	74.1	60.1	72.8	1184.9	5789.1	6564.2	6627.4
55°	24.9	32.1	50.6	51.5	51.1	61.9	1229.7	6110.9	6852.9	6882.8
57.5°	21.7	25.8	35.2	39.8	42.9	55.1	1230.6	6572.7	7299.9	7318.4
60°	18.5	22.6	29.4	32.1	37.1	49.3	1185.8	6734.1	7475.7	7537.1
62.5°	16.3	19.9	24.4	26.7	31.2	44.3	1081.0	6500.4	7234.4	7338.8
65°	14.5	18.1	20.3	22.6	27.6	39.8	908.4	6033.1	6834.0	6942.9
67.5°	12.7	15.8	18.1	20.3	24.9	35.2	668.8	5490.4	6374.4	6464.7
70°	11.3	14.0	16.3	18.1	21.7	29.8	405.8	4658.9	5738.9	5776.5
72.5°	10.8	12.7	14.9	16.3	19.0	26.2	205.6	3423.8	4587.9	4648.9
75°	9.5	11.3	13.6	14.5	16.7	22.6	83.6	2248.8	3324.8	3422.9
77.5°	7.7	10.4	12.2	13.1	14.5	18.5	42.5	1437.1	2333.3	2396.5
80°	2.7	7.7	10.4	10.8	12.2	13.6	28.0	786.8	1353.5	1380.6
82.5°	0.0	5.0	8.1	7.7	8.6	10.4	18.1	374.2	893.4	903.4
85°	0.0	2.3	6.3	5.0	3.6	7.2	6.3	81.8	468.6	488.1
87.5°	0.0	0.0	0.5	2.3	1.8	2.7	0.9	0.5	42.5	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)