

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: P386586

Luminaire Tested: GAW-SA2B-730-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386586  
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-SA2B-730-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA 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: 8053 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

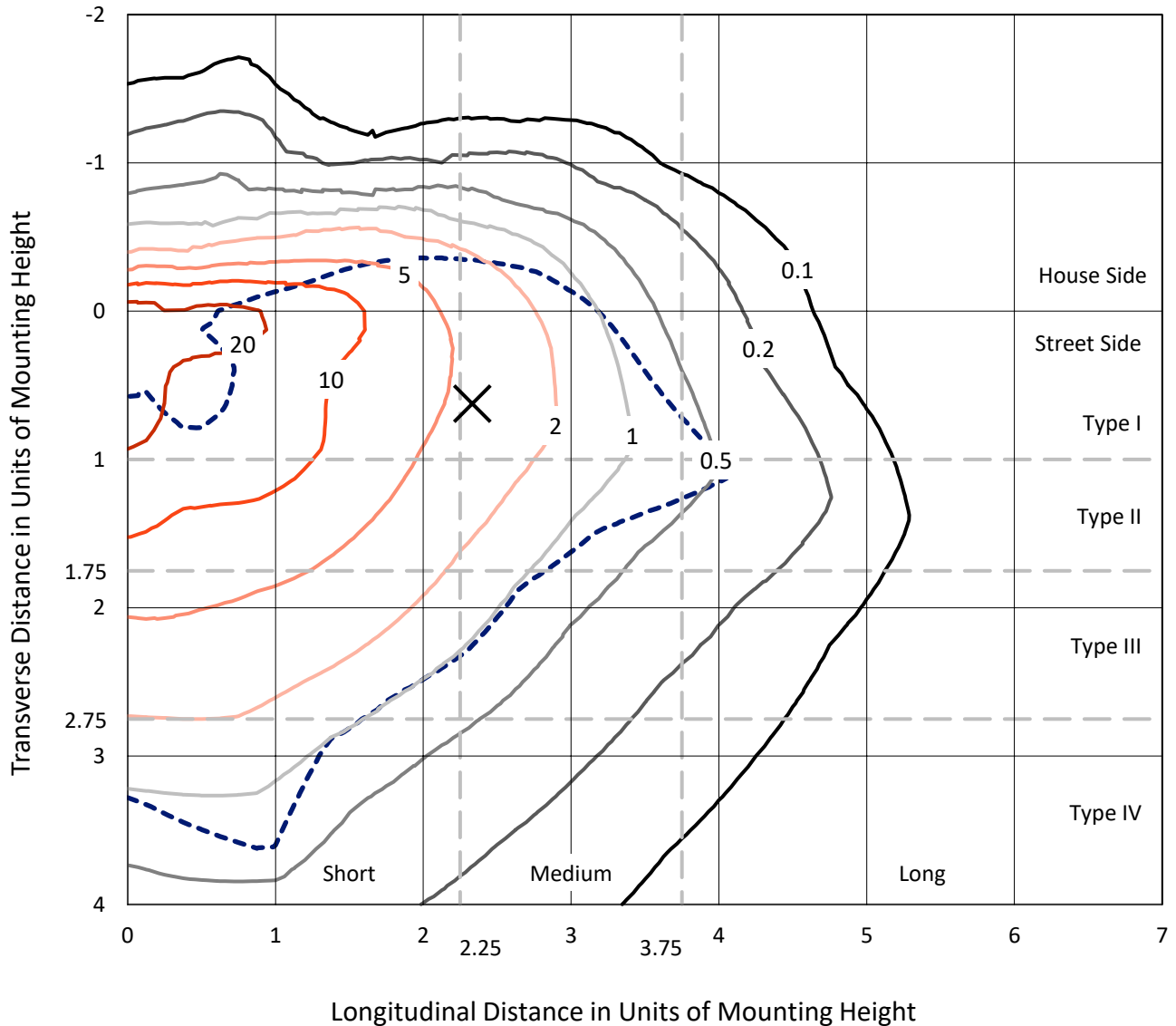
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

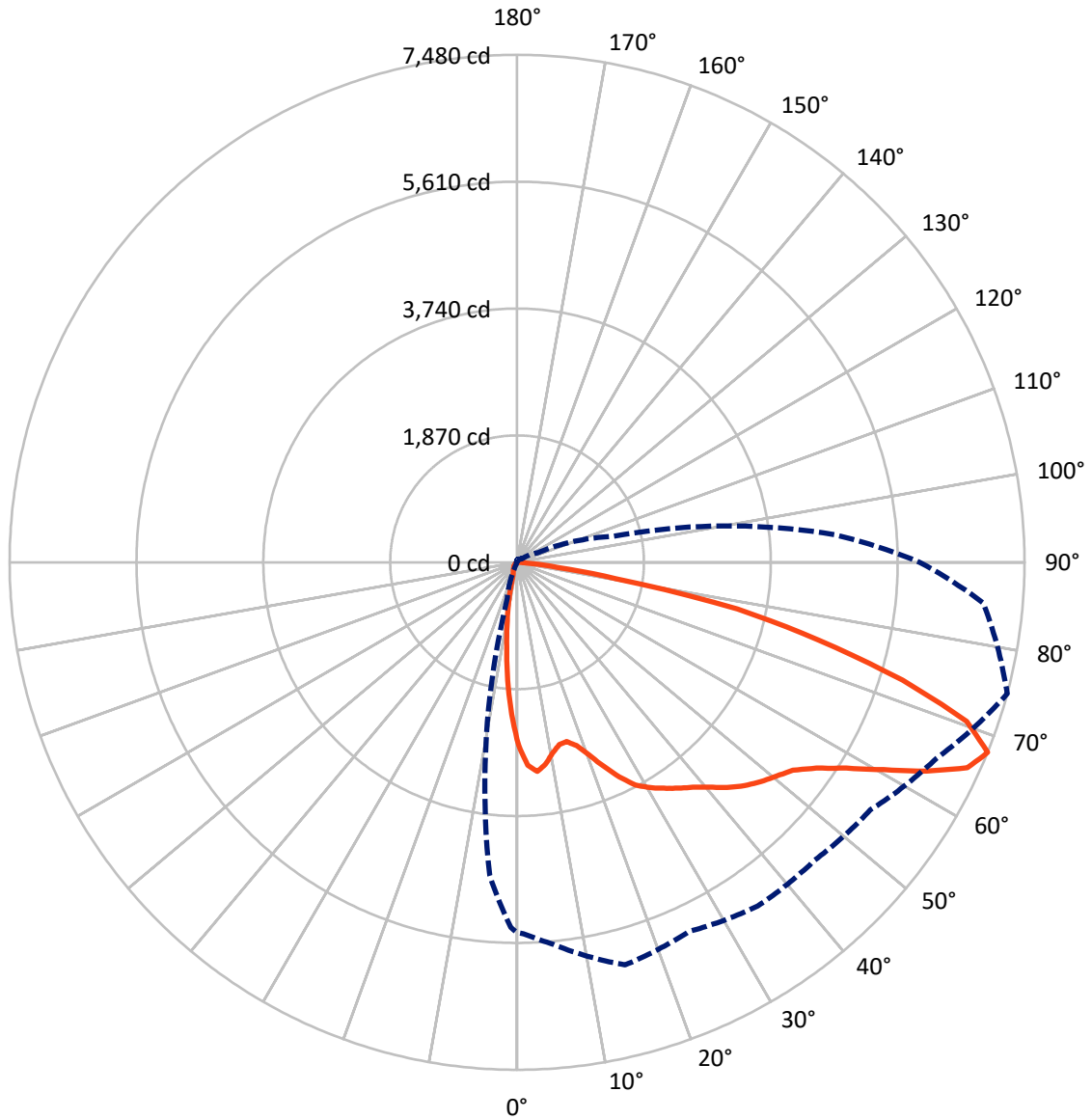
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 35 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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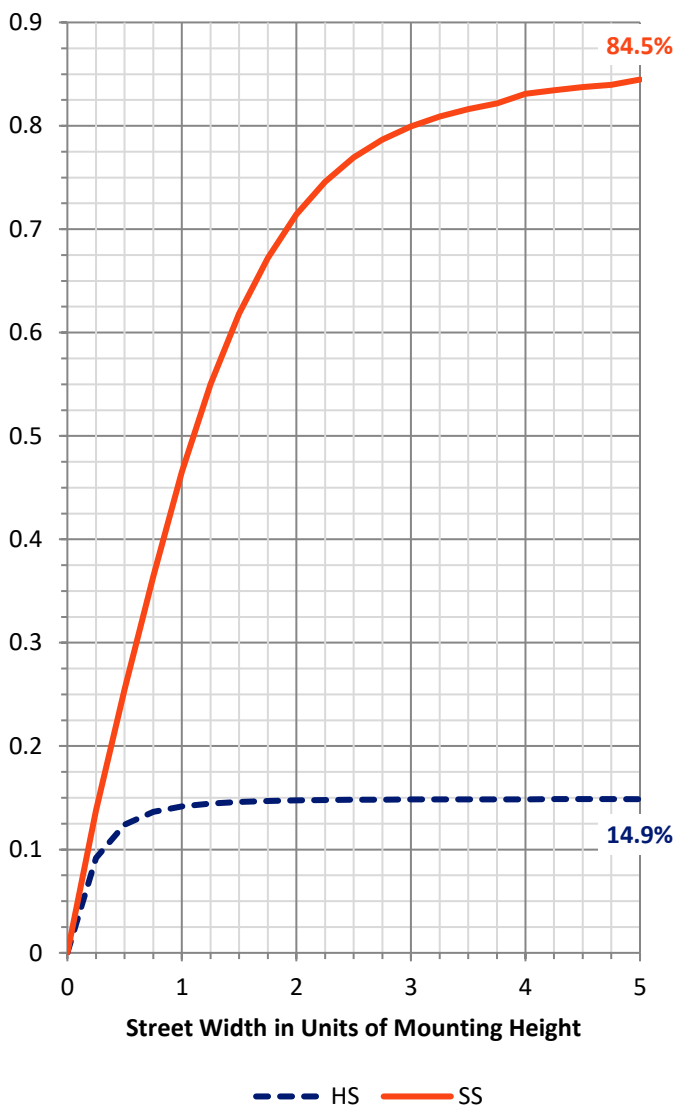
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1208.4	0.0	1208.4
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	6844.6	0.0	6844.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	8053.0	0.0	8053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.9	2.5
10°-20°	403.5	5.0
20°-30°	570.9	7.1
30°-40°	839.3	10.4
40°-50°	1206.4	15.0
50°-60°	1698.3	21.1
60°-70°	1983.4	24.6
70°-80°	1011.9	12.6
80°-90°	134.4	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°	8053.0	100.0
0°-180°	8053.0	100.0

**Coefficient of Utilization**

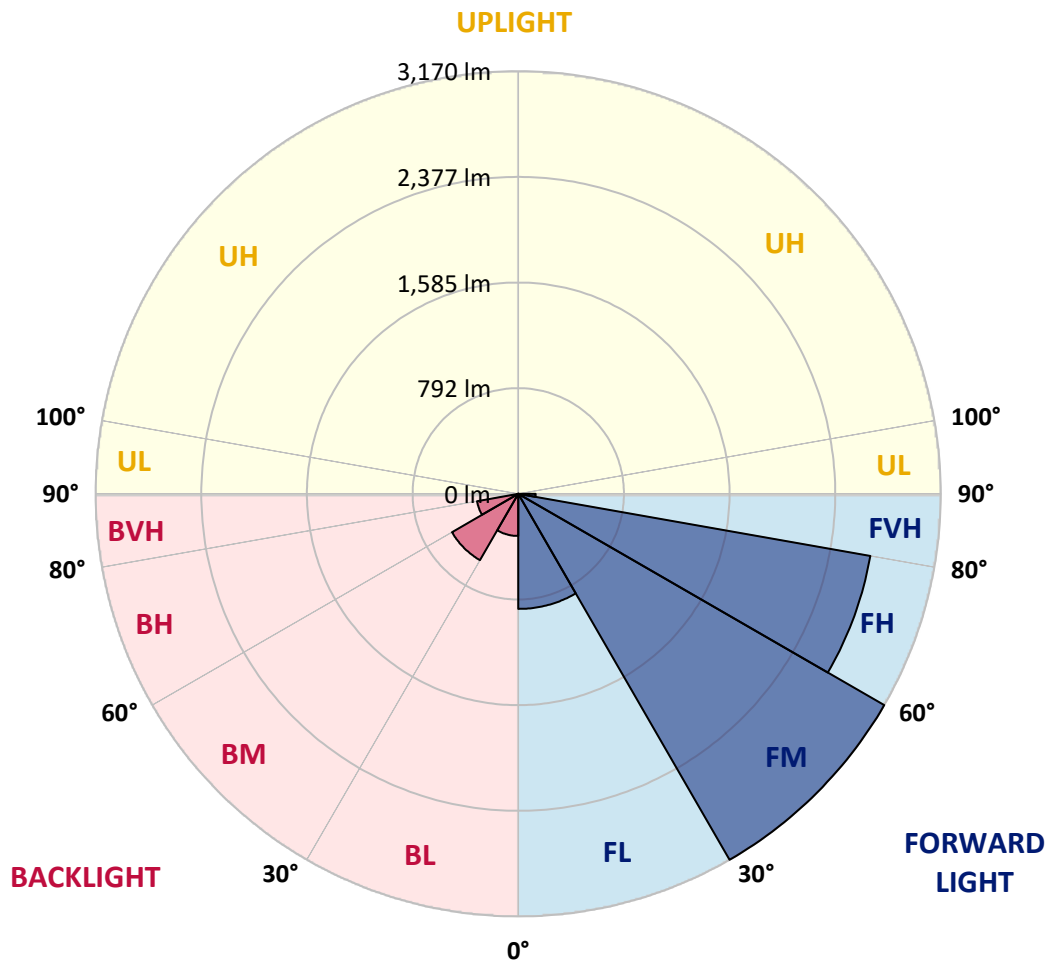


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.3	10.7			
FM (30°-60°)	3169.5	39.4			
FH (60°-80°)	2681.4	33.3			G2/5000
FVH (80°-90°)	130.3	1.6			G2/225
BL (0°-30°)	316.0	3.9	B1/500		
BM (30°-60°)	574.4	7.1	B1/1000		
BH (60°-80°)	313.9	3.9	B1/500		G1/500
BVH (80°-90°)	4.1	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6
2.5°	2928.6	2933.2	2956.9	3011.8	3071.7	3076.3	3116.7	3075.1	3061.0	2993.9	2924.4
5°	2950.8	2968.3	3049.6	3210.9	3350.9	3395.9	3428.0	3346.3	3260.5	3096.5	2921.4
7.5°	2772.6	2802.0	2929.8	3232.7	3482.9	3593.5	3614.5	3486.7	3276.5	3006.4	2743.2
10°	2544.5	2578.0	2732.2	3104.5	3448.2	3637.8	3666.8	3499.3	3197.2	2860.7	2550.6
12.5°	2359.8	2399.1	2556.7	2960.3	3328.8	3538.6	3595.8	3457.0	3128.5	2757.3	2419.0
15°	2274.8	2319.8	2485.3	2867.2	3196.4	3361.6	3408.9	3349.0	3090.4	2740.9	2388.4
17.5°	2323.6	2372.4	2543.3	2875.2	3072.1	3142.6	3180.8	3205.2	3090.4	2839.7	2477.7
20°	2523.9	2576.5	2757.3	2956.5	2969.1	2942.7	2983.6	3069.4	3126.2	3027.4	2692.1
22.5°	2800.8	2862.6	3066.7	3095.7	2918.7	2819.1	2824.5	2959.1	3191.5	3265.5	2989.7
25°	3138.4	3214.0	3421.5	3303.2	2939.7	2745.5	2743.6	2868.4	3255.2	3503.9	3321.2
27.5°	3473.8	3556.9	3739.3	3556.5	3026.3	2732.2	2728.3	2840.9	3317.4	3716.0	3683.2
30°	3754.9	3835.8	3993.0	3740.0	3119.7	2763.4	2745.1	2870.3	3354.4	3853.7	3947.2
32.5°	3983.8	4048.7	4175.7	3866.3	3219.7	2824.1	2784.4	2948.8	3417.3	3970.1	4189.8
35°	4235.6	4303.9	4354.6	3986.5	3331.8	2911.5	2854.6	3073.6	3514.2	4088.3	4455.7
37.5°	4522.8	4590.7	4584.6	4096.3	3474.1	3056.0	3019.8	3271.2	3664.9	4205.4	4752.5
40°	4804.0	4873.4	4823.8	4216.5	3641.2	3294.5	3267.8	3568.0	3866.7	4355.4	5100.4
42.5°	5067.2	5142.4	5036.3	4330.2	3840.4	3595.1	3640.8	3950.2	4119.2	4540.0	5400.2
45°	5279.3	5356.0	5214.5	4440.8	4050.2	3959.8	4097.5	4373.7	4422.9	4696.0	5602.8
47.5°	5433.4	5505.9	5338.1	4551.4	4318.7	4405.7	4645.7	4817.7	4697.2	4831.4	5746.6
50°	5531.8	5588.3	5374.3	4689.9	4671.2	4926.1	5216.7	5300.7	4955.4	4953.5	5921.3
52.5°	5594.4	5620.0	5401.0	4834.5	5039.0	5492.6	5776.0	5802.3	5221.3	5087.8	6156.7
55°	5809.9	5830.5	5590.2	5009.6	5343.0	5988.9	6281.8	6257.4	5522.3	5350.6	6434.4
57.5°	6177.7	6199.4	5981.2	5261.4	5589.1	6295.6	6648.4	6692.3	5875.2	5719.9	6732.0
60°	6362.3	6402.8	6324.9	5580.3	5827.5	6491.7	6898.3	7038.3	6316.2	6206.7	7020.4
62.5°	6194.9	6253.6	6366.5	5933.9	6064.4	6599.6	6976.1	7162.3	6767.8	6773.9	7198.2
65°	5860.7	5907.6	6099.1	6127.7	6201.7	6586.3	6783.9	6989.1	7044.4	7295.0	7188.6
67.5°	5457.1	5474.6	5637.1	6143.0	6002.6	6184.9	6206.3	6358.1	6825.8	7479.7	6899.8
70°	4876.1	4885.6	5027.5	5632.2	5158.4	5198.4	5166.8	5197.7	5868.3	7029.9	6170.8
72.5°	3924.3	3948.3	4150.1	4677.3	3758.0	3642.4	3891.1	3877.4	4519.4	5939.3	4583.1
75°	2889.3	2930.9	3235.7	3767.5	2637.6	2385.8	2567.4	2615.8	3212.8	4594.2	2866.1
77.5°	2023.0	2053.9	2349.2	2769.5	1908.9	1706.0	1640.4	1698.0	2120.6	3323.5	1443.9
80°	1165.4	1176.9	1365.3	1599.2	1286.4	1471.8	1333.3	1372.9	1270.7	1478.6	621.0
82.5°	762.6	764.5	838.1	951.8	801.1	930.8	689.0	880.8	781.7	594.0	202.2
85°	412.0	414.3	486.0	675.6	453.6	256.4	150.7	309.4	483.3	136.2	55.3
87.5°	45.4	41.6	146.5	245.7	125.9	23.3	8.0	34.7	77.4	8.8	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°	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6
2.5°	2889.0	2857.3	2778.3	2694.8	2627.6	2564.7	2501.4	2423.9	2364.0	2351.8	2332.0
5°	2827.2	2726.8	2561.3	2394.9	2261.0	2092.0	1984.8	1901.3	1819.7	1814.7	1798.3
7.5°	2611.2	2479.2	2246.2	2016.1	1827.7	1666.7	1504.2	1395.5	1310.0	1279.9	1261.9
10°	2403.7	2255.3	1964.2	1701.8	1533.6	1391.3	1276.8	1163.1	1060.1	989.2	957.1
12.5°	2258.7	2094.7	1773.9	1547.7	1427.1	1292.1	1152.5	1010.5	891.9	806.4	754.2
15°	2202.7	2027.6	1710.2	1486.6	1337.9	1166.9	988.4	826.3	694.7	617.2	570.3
17.5°	2269.4	2065.7	1705.2	1412.2	1204.3	991.8	794.6	603.1	479.1	420.4	390.3
20°	2438.8	2187.0	1703.3	1321.1	1045.6	784.3	538.3	396.7	321.6	288.8	274.7
22.5°	2678.4	2341.9	1718.6	1231.0	880.5	560.4	371.6	291.5	252.9	235.4	227.4
25°	2986.6	2559.4	1761.7	1149.4	725.2	418.1	289.5	244.1	217.1	203.3	197.6
27.5°	3315.1	2809.6	1828.8	1078.4	598.9	333.4	248.0	209.1	189.6	180.1	174.7
30°	3585.9	3099.5	1896.7	999.5	507.4	290.7	227.0	190.7	168.2	162.1	157.2
32.5°	3822.8	3318.9	1944.8	928.1	447.5	258.3	205.2	170.5	155.3	143.4	138.1
35°	4068.1	3501.6	1943.3	878.2	406.3	233.8	186.9	152.6	134.3	120.5	116.4
37.5°	4333.6	3708.0	1910.1	835.4	388.3	214.4	176.6	143.1	124.7	111.0	105.7
40°	4644.5	3924.7	1876.1	795.4	383.4	198.8	169.4	135.4	116.0	102.6	97.3
42.5°	4947.4	4120.0	1846.4	765.6	362.0	198.4	162.9	129.7	109.1	96.1	90.0
45°	5189.7	4302.0	1840.6	747.7	339.5	205.2	159.5	125.9	103.8	90.8	85.1
47.5°	5391.1	4499.6	1877.3	735.1	318.2	187.3	167.9	123.2	98.8	86.2	79.7
50°	5630.6	4742.2	1963.5	714.5	295.6	168.6	192.3	124.0	94.6	81.6	74.8
52.5°	5964.8	5077.9	2090.1	679.8	264.7	151.4	189.2	124.7	90.0	76.7	69.8
55°	6339.4	5497.1	2226.3	622.2	221.6	128.9	162.1	119.4	81.3	71.3	64.9
57.5°	6733.1	5877.5	2307.2	553.5	176.2	111.4	129.7	108.7	71.7	64.1	59.9
60°	6794.9	6022.0	2270.2	469.2	140.0	96.9	96.1	110.6	64.1	56.5	53.4
62.5°	6641.2	5840.5	2091.3	394.1	117.1	85.1	79.0	96.5	58.0	50.4	47.3
65°	6345.5	5349.5	1801.4	355.2	108.7	72.9	65.6	67.9	50.7	43.9	41.2
67.5°	5934.3	4694.1	1479.0	333.0	107.6	62.6	56.1	51.5	43.9	38.1	35.9
70°	5093.5	3910.6	1179.9	320.8	104.5	52.6	47.3	42.0	36.6	32.4	30.5
72.5°	3748.8	2771.1	917.8	307.5	105.3	42.0	41.2	34.7	29.4	25.2	24.4
75°	2166.0	1583.1	602.0	249.1	100.3	32.4	34.3	24.4	20.6	17.5	17.5
77.5°	1154.4	965.5	229.3	103.8	36.6	20.6	19.5	14.5	13.0	10.7	10.3
80°	503.2	425.0	69.0	29.0	20.2	11.1	7.2	6.5	5.7	4.6	4.2
82.5°	178.2	153.7	22.5	14.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.4	29.0	0.0	3.4	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°	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6
2.5°	2291.6	2283.2	2233.6	2235.5	2244.2	2256.8	2227.1	2240.8	2277.8	2313.3	2326.6
5°	1772.0	1773.9	1743.7	1762.4	1779.2	1790.7	1742.6	1743.4	1772.7	1812.8	1833.8
7.5°	1248.6	1245.5	1247.1	1291.7	1323.4	1300.5	1318.4	1256.2	1260.0	1288.6	1267.3
10°	928.1	886.2	862.5	896.1	930.8	918.2	887.3	867.1	881.2	912.9	910.6
12.5°	729.4	669.1	633.6	609.6	638.2	614.6	613.8	596.3	577.2	580.6	631.3
15°	548.6	504.7	462.7	424.2	423.4	415.4	374.6	328.8	325.0	327.3	353.6
17.5°	377.3	362.4	345.2	312.1	303.3	269.7	230.0	211.7	202.6	206.8	215.5
20°	265.1	259.4	261.3	243.4	230.8	198.8	175.5	168.2	166.7	170.9	175.1
22.5°	219.7	209.4	208.3	200.3	187.7	164.4	151.8	147.6	145.7	149.5	152.6
25°	192.3	182.0	177.8	172.8	159.5	143.4	135.8	132.0	130.1	132.4	134.3
27.5°	169.4	159.8	156.0	152.6	139.6	128.2	122.1	118.6	117.1	117.9	119.8
30°	152.2	143.8	138.9	134.7	123.6	115.6	110.2	106.8	105.3	105.3	107.2
32.5°	134.3	129.7	125.1	119.8	109.5	104.1	98.8	95.0	93.5	93.8	95.4
35°	111.8	110.2	111.4	106.4	97.7	93.1	87.7	83.5	82.4	82.8	84.3
37.5°	99.2	92.3	96.5	93.8	88.9	82.8	75.9	72.1	70.2	71.3	72.1
40°	91.2	82.8	79.7	82.4	81.6	71.7	65.6	61.8	60.3	60.7	61.4
42.5°	84.3	74.4	67.5	67.1	71.7	62.6	56.1	52.6	50.7	50.7	51.5
45°	77.8	67.1	58.7	52.3	60.3	53.0	46.9	43.9	41.6	41.6	42.0
47.5°	72.9	61.0	51.1	42.7	45.4	43.5	38.5	35.5	33.2	33.2	33.6
50°	68.3	54.9	44.3	35.9	34.0	35.9	31.3	27.8	26.3	25.9	26.7
52.5°	63.3	48.8	37.8	30.5	26.7	27.1	24.4	22.1	20.2	20.2	21.0
55°	58.4	43.9	32.8	25.9	22.1	20.2	19.5	17.9	16.4	16.4	17.2
57.5°	53.4	38.5	27.8	21.4	17.5	16.0	16.0	14.9	13.7	13.7	14.5
60°	48.8	33.2	22.9	17.5	13.7	13.4	13.7	12.6	11.8	11.8	12.6
62.5°	43.5	28.2	18.7	14.5	11.1	10.7	11.8	11.1	10.3	10.3	11.1
65°	37.0	24.0	14.9	11.1	8.4	8.4	9.9	9.2	8.4	8.4	9.2
67.5°	31.3	20.2	11.4	8.0	6.1	6.5	8.4	7.6	7.2	7.2	8.0
70°	25.9	15.6	8.0	5.0	3.4	5.0	6.5	6.5	6.5	6.5	7.2
72.5°	19.5	10.7	4.6	1.9	1.5	3.4	5.3	6.1	5.7	5.7	6.9
75°	12.6	6.1	1.5	0.0	0.0	1.9	4.2	5.0	5.0	4.6	5.7
77.5°	7.2	1.9	0.0	0.0	0.0	0.0	2.7	2.3	1.9	1.5	2.7
80°	1.9	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-SA2B-730-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6	2701.6
2.5°	2380.4	2425.5	2488.8	2555.9	2659.3	2741.3	2821.8	2890.9	2917.6	2928.6
5°	1884.1	1950.1	2042.8	2161.8	2348.4	2516.2	2686.4	2857.7	2932.1	2950.8
7.5°	1352.0	1436.3	1554.2	1703.3	1921.9	2139.3	2377.0	2628.4	2743.6	2772.6
10°	1000.6	1103.6	1238.7	1395.8	1604.5	1828.1	2087.1	2374.3	2505.9	2544.5
12.5°	709.9	849.2	1030.0	1221.1	1401.9	1601.5	1863.5	2180.2	2318.3	2359.8
15°	417.0	551.6	765.6	1021.6	1253.2	1455.3	1721.6	2080.6	2232.8	2274.8
17.5°	239.2	306.3	468.1	753.4	1067.8	1347.8	1677.0	2105.4	2284.7	2323.6
20°	182.7	204.1	269.7	485.2	851.1	1242.1	1677.0	2245.8	2466.7	2523.9
22.5°	159.8	175.5	202.2	289.5	626.4	1128.8	1696.4	2448.7	2737.5	2800.8
25°	141.9	156.0	178.9	217.8	427.3	994.1	1742.6	2697.8	3056.4	3138.4
27.5°	127.0	140.4	161.0	190.7	292.2	831.6	1804.8	2990.0	3408.1	3473.8
30°	113.7	126.3	145.0	165.9	225.5	647.4	1857.8	3265.5	3684.3	3754.9
32.5°	101.1	112.5	129.3	145.0	184.6	478.8	1863.5	3483.7	3913.6	3983.8
35°	89.3	99.6	114.8	127.0	153.0	378.0	1774.6	3672.9	4142.9	4235.6
37.5°	77.8	87.7	101.1	110.2	134.7	308.2	1638.8	3883.9	4437.0	4522.8
40°	67.1	75.9	89.6	95.8	127.4	236.9	1491.2	4105.1	4725.4	4804.0
42.5°	57.2	65.6	79.0	90.8	111.8	177.0	1331.7	4312.6	4984.8	5067.2
45°	47.7	56.5	69.8	96.1	92.7	132.4	1161.2	4450.3	5189.7	5279.3
47.5°	38.5	48.4	66.8	91.6	74.0	97.3	1026.2	4580.8	5344.9	5433.4
50°	30.9	40.8	75.2	81.6	60.7	74.4	969.7	4697.5	5446.8	5531.8
52.5°	25.2	34.3	71.0	62.6	50.7	61.4	1000.2	4886.8	5541.0	5594.4
55°	21.0	27.1	42.7	43.5	43.1	52.3	1038.0	5158.4	5784.8	5809.9
57.5°	18.3	21.7	29.8	33.6	36.2	46.5	1038.8	5548.3	6162.1	6177.7
60°	15.6	19.1	24.8	27.1	31.3	41.6	1001.0	5684.4	6310.4	6362.3
62.5°	13.7	16.8	20.6	22.5	26.3	37.4	912.5	5487.2	6106.7	6194.9
65°	12.2	15.3	17.2	19.1	23.3	33.6	766.8	5092.8	5768.7	5860.7
67.5°	10.7	13.4	15.3	17.2	21.0	29.8	564.6	4634.6	5380.8	5457.1
70°	9.5	11.8	13.7	15.3	18.3	25.2	342.6	3932.7	4844.4	4876.1
72.5°	9.2	10.7	12.6	13.7	16.0	22.1	173.6	2890.1	3872.8	3924.3
75°	8.0	9.5	11.4	12.2	14.1	19.1	70.6	1898.2	2806.6	2889.3
77.5°	6.5	8.8	10.3	11.1	12.2	15.6	35.9	1213.1	1969.6	2023.0
80°	2.3	6.5	8.8	9.2	10.3	11.4	23.7	664.2	1142.5	1165.4
82.5°	0.0	4.2	6.9	6.5	7.2	8.8	15.3	315.9	754.2	762.6
85°	0.0	1.9	5.3	4.2	3.1	6.1	5.3	69.0	395.6	412.0
87.5°	0.0	0.0	0.4	1.9	1.5	2.3	0.8	0.4	35.9	45.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)