

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: P386782

Luminaire Tested: GAW-SA2C-727-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386782  
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-SA2C-727-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 9151 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

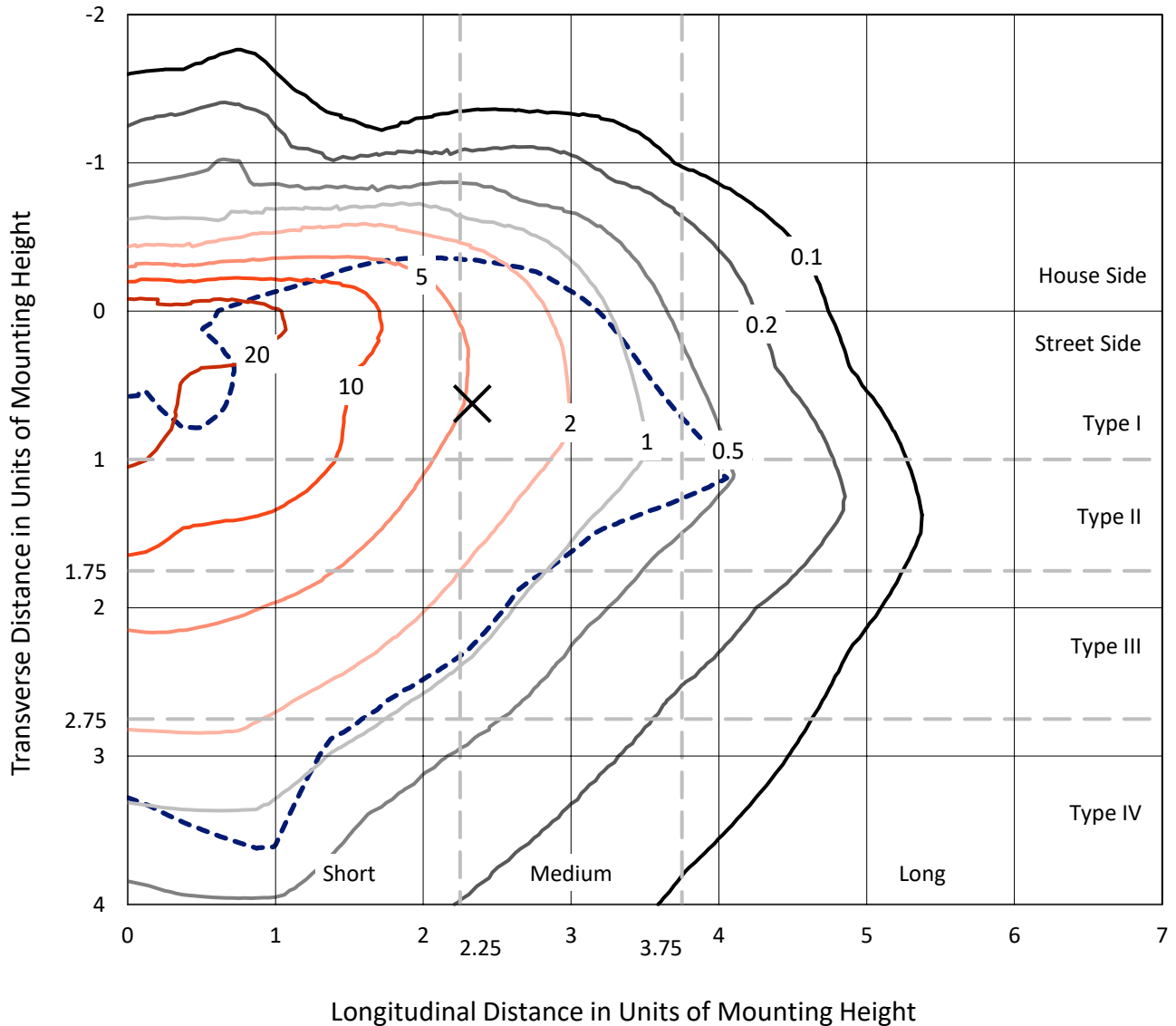
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

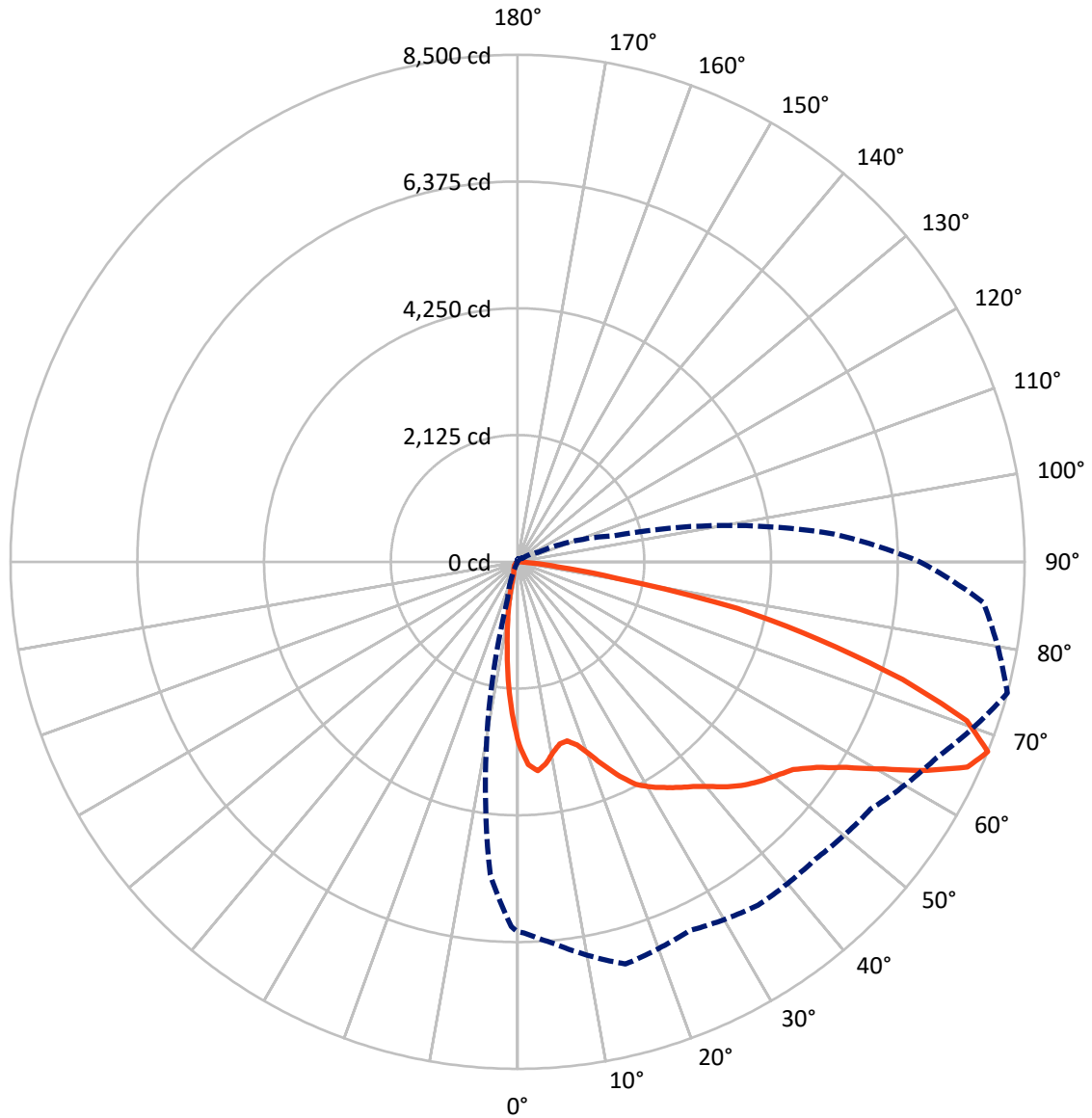
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 39.8 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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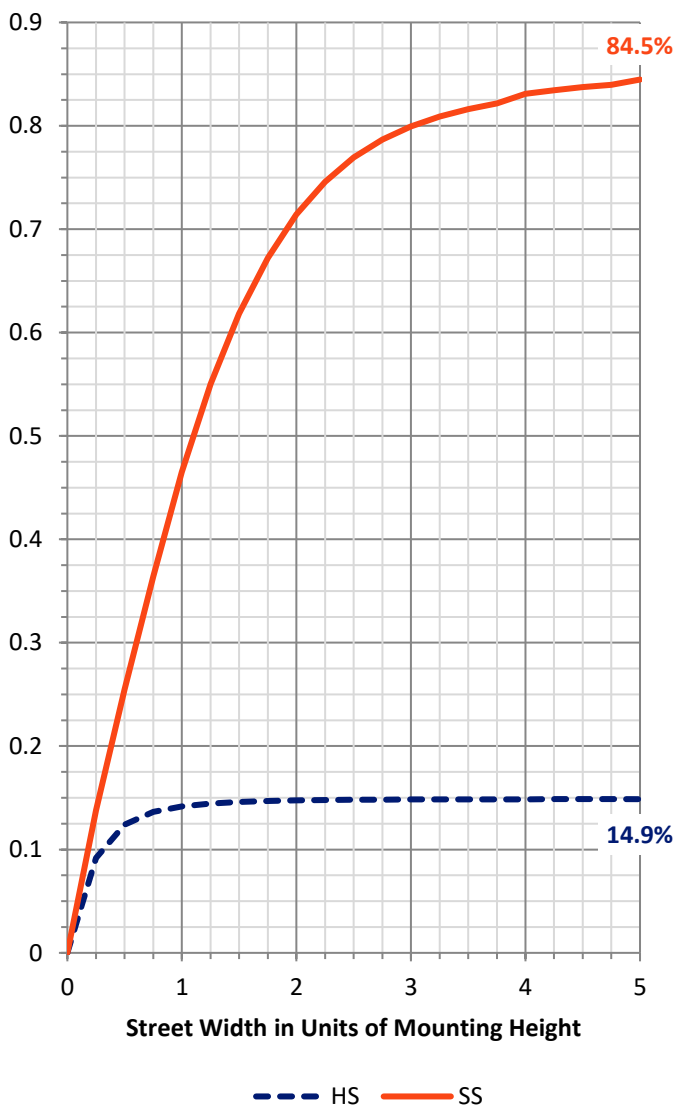
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1373.2	0.0	1373.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	7777.8	0.0	7777.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	9151.0	0.0	9151.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.9	2.5
10°-20°	458.5	5.0
20°-30°	648.7	7.1
30°-40°	953.8	10.4
40°-50°	1370.9	15.0
50°-60°	1929.8	21.1
60°-70°	2253.9	24.6
70°-80°	1149.8	12.6
80°-90°	152.7	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°	9151.0	100.0
0°-180°	9151.0	100.0

**Coefficient of Utilization**



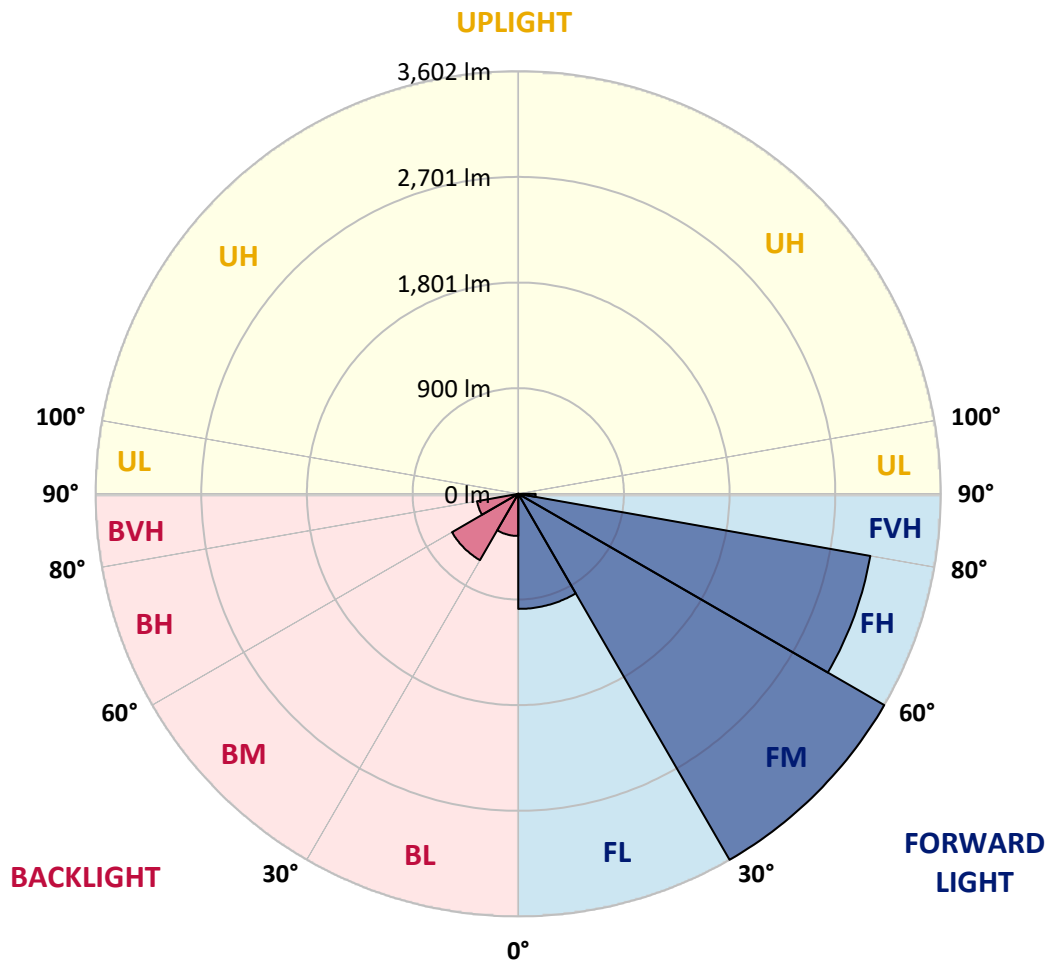
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.0	10.7			
FM (30°-60°)	3601.7	39.4			
FH (60°-80°)	3047.0	33.3			G2/5000
FVH (80°-90°)	148.1	1.6			G2/225
BL (0°-30°)	359.1	3.9	B1/500		
BM (30°-60°)	652.8	7.1	B1/1000		
BH (60°-80°)	356.7	3.9	B1/500		G1/500
BVH (80°-90°)	4.6	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°	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0
2.5°	3327.9	3333.1	3360.0	3422.4	3490.5	3495.7	3541.6	3494.4	3478.4	3402.1	3323.2
5°	3353.1	3373.0	3465.4	3648.7	3807.8	3859.0	3895.4	3802.6	3705.1	3518.7	3319.7
7.5°	3150.6	3184.0	3329.2	3673.4	3957.8	4083.5	4107.4	3962.1	3723.3	3416.4	3117.3
10°	2891.4	2929.6	3104.7	3527.8	3918.4	4133.8	4166.7	3976.4	3633.1	3250.8	2898.3
12.5°	2681.6	2726.2	2905.3	3363.9	3782.7	4021.1	4086.1	3928.3	3555.1	3133.3	2748.8
15°	2584.9	2636.1	2824.2	3258.1	3632.2	3819.9	3873.7	3805.6	3511.7	3114.7	2714.1
17.5°	2640.4	2695.9	2890.1	3267.2	3490.9	3571.1	3614.5	3642.2	3511.7	3226.9	2815.5
20°	2868.0	2927.8	3133.3	3359.6	3373.9	3344.0	3390.4	3487.9	3552.5	3440.2	3059.2
22.5°	3182.7	3252.9	3484.9	3517.8	3316.7	3203.5	3209.6	3362.6	3626.6	3710.7	3397.3
25°	3566.4	3652.2	3888.0	3753.6	3340.5	3119.9	3117.7	3259.4	3699.0	3981.6	3774.0
27.5°	3947.4	4041.9	4249.1	4041.5	3438.9	3104.7	3100.3	3228.2	3769.7	4222.7	4185.4
30°	4266.9	4358.8	4537.4	4250.0	3545.1	3140.2	3119.4	3261.6	3811.7	4379.2	4485.4
32.5°	4527.0	4600.7	4745.0	4393.5	3658.7	3209.2	3164.1	3350.9	3883.2	4511.4	4761.1
35°	4813.1	4890.7	4948.3	4530.0	3786.1	3308.4	3243.8	3492.7	3993.3	4645.8	5063.2
37.5°	5139.5	5216.7	5209.7	4654.9	3947.8	3472.7	3431.5	3717.2	4164.6	4778.8	5400.5
40°	5459.0	5537.9	5481.5	4791.4	4137.7	3743.7	3713.3	4054.5	4393.9	4949.2	5795.8
42.5°	5758.1	5843.5	5723.0	4920.6	4364.0	4085.2	4137.3	4488.8	4680.9	5159.0	6136.5
45°	5999.1	6086.3	5925.4	5046.3	4602.4	4499.7	4656.2	4970.0	5025.9	5336.3	6366.7
47.5°	6174.3	6256.6	6065.9	5172.0	4907.6	5006.4	5279.1	5474.6	5337.6	5490.2	6530.2
50°	6286.1	6350.3	6107.1	5329.4	5308.1	5597.7	5928.0	6023.4	5631.1	5628.9	6728.7
52.5°	6357.2	6386.2	6137.4	5493.7	5726.0	6241.4	6563.5	6593.4	5933.2	5781.5	6996.2
55°	6602.1	6625.5	6352.4	5692.6	6071.5	6805.4	7138.3	7110.6	6275.3	6080.2	7311.7
57.5°	7020.0	7044.7	6796.8	5978.7	6351.1	7154.0	7554.9	7604.8	6676.2	6499.8	7649.9
60°	7229.8	7275.8	7187.3	6341.1	6622.1	7376.8	7838.9	7998.0	7177.4	7052.9	7977.6
62.5°	7039.5	7106.3	7234.6	6743.0	6891.3	7499.4	7927.3	8138.8	7690.6	7697.6	8179.6
65°	6659.8	6713.1	6930.7	6963.2	7047.3	7484.3	7708.8	7942.0	8004.9	8289.7	8168.8
67.5°	6201.1	6221.1	6405.7	6980.6	6821.0	7028.2	7052.5	7225.0	7756.5	8499.5	7840.6
70°	5540.9	5551.8	5713.0	6400.1	5861.7	5907.2	5871.2	5906.4	6668.4	7988.4	7012.2
72.5°	4459.4	4486.7	4716.0	5315.1	4270.3	4139.0	4421.6	4406.0	5135.6	6749.1	5208.0
75°	3283.3	3330.5	3676.9	4281.2	2997.2	2711.1	2917.4	2972.5	3650.9	5220.6	3256.8
77.5°	2298.8	2333.9	2669.5	3147.2	2169.2	1938.6	1864.0	1929.5	2409.8	3776.6	1640.8
80°	1324.3	1337.3	1551.5	1817.2	1461.7	1672.4	1515.1	1560.1	1444.0	1680.2	705.7
82.5°	866.6	868.7	952.4	1081.6	910.3	1057.7	782.9	1000.9	888.2	675.0	229.8
85°	468.2	470.8	552.3	767.7	515.4	291.3	171.2	351.6	549.2	154.8	62.9
87.5°	51.6	47.3	166.5	279.2	143.1	26.4	9.1	39.4	88.0	10.0	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°	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0
2.5°	3282.8	3246.9	3157.1	3062.2	2985.9	2914.4	2842.4	2754.4	2686.4	2672.5	2649.9
5°	3212.6	3098.6	2910.5	2721.5	2569.3	2377.3	2255.5	2160.5	2067.8	2062.1	2043.5
7.5°	2967.3	2817.3	2552.4	2291.0	2076.9	1893.9	1709.3	1585.7	1488.6	1454.4	1434.0
10°	2731.4	2562.8	2232.1	1933.8	1742.6	1581.0	1450.9	1321.7	1204.7	1124.0	1087.6
12.5°	2566.7	2380.3	2015.7	1758.7	1621.7	1468.2	1309.6	1148.3	1013.5	916.4	857.0
15°	2503.0	2304.0	1943.4	1689.3	1520.3	1326.1	1123.2	938.9	789.4	701.4	648.1
17.5°	2578.9	2347.4	1937.7	1604.8	1368.5	1127.1	903.0	685.4	544.5	477.7	443.5
20°	2771.3	2485.2	1935.6	1501.2	1188.2	891.3	611.7	450.8	365.4	328.2	312.1
22.5°	3043.6	2661.2	1952.9	1398.9	1000.5	636.8	422.2	331.2	287.4	267.5	258.4
25°	3393.8	2908.3	2001.9	1306.1	824.1	475.1	329.0	277.4	246.7	231.1	224.5
27.5°	3767.1	3192.7	2078.2	1225.5	680.6	378.9	281.8	237.6	215.4	204.6	198.5
30°	4074.8	3522.1	2155.3	1135.8	576.5	330.3	257.9	216.7	191.2	184.2	178.6
32.5°	4344.0	3771.4	2210.0	1054.7	508.5	293.5	233.2	193.8	176.4	163.0	156.9
35°	4622.8	3979.0	2208.2	997.9	461.7	265.7	212.4	173.4	152.6	137.0	132.2
37.5°	4924.5	4213.6	2170.5	949.4	441.3	243.6	200.7	162.6	141.8	126.1	120.1
40°	5277.8	4459.8	2131.9	903.8	435.7	225.9	192.5	153.9	131.8	116.6	110.5
42.5°	5622.0	4681.7	2098.1	870.0	411.4	225.4	185.1	147.4	124.0	109.2	102.3
45°	5897.3	4888.5	2091.6	849.6	385.8	233.2	181.2	143.1	117.9	103.2	96.7
47.5°	6126.1	5113.1	2133.2	835.3	361.5	212.8	190.7	140.0	112.3	98.0	90.6
50°	6398.4	5388.8	2231.2	811.9	336.0	191.6	218.5	140.9	107.5	92.8	85.0
52.5°	6778.1	5770.2	2375.1	772.5	300.8	172.1	215.0	141.8	102.3	87.1	79.3
55°	7203.8	6246.6	2529.9	707.0	251.9	146.5	184.2	135.7	92.3	81.1	73.7
57.5°	7651.2	6678.8	2621.8	629.0	200.3	126.6	147.4	123.5	81.5	72.8	68.1
60°	7721.4	6843.1	2579.7	533.2	159.1	110.1	109.2	125.7	72.8	64.2	60.7
62.5°	7546.7	6636.8	2376.4	447.8	133.1	96.7	89.7	109.7	65.9	57.2	53.8
65°	7210.7	6078.9	2047.0	403.6	123.5	82.8	74.6	77.2	57.7	49.9	46.8
67.5°	6743.4	5334.1	1680.7	378.4	122.2	71.1	63.7	58.5	49.9	43.3	40.7
70°	5788.0	4443.7	1340.8	364.6	118.8	59.8	53.8	47.7	41.6	36.8	34.7
72.5°	4259.9	3148.9	1043.0	349.4	119.6	47.7	46.8	39.4	33.4	28.6	27.7
75°	2461.4	1799.0	684.1	283.1	114.0	36.8	39.0	27.7	23.4	19.9	19.9
77.5°	1311.8	1097.2	260.5	117.9	41.6	23.4	22.1	16.5	14.7	12.1	11.7
80°	571.8	482.9	78.5	32.9	23.0	12.6	8.2	7.4	6.5	5.2	4.8
82.5°	202.4	174.7	25.6	16.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.0	32.9	0.0	3.9	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°	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0
2.5°	2604.0	2594.5	2538.1	2540.3	2550.2	2564.6	2530.7	2546.3	2588.4	2628.7	2643.9
5°	2013.6	2015.7	1981.5	2002.7	2021.8	2034.8	1980.2	1981.1	2014.4	2060.0	2083.8
7.5°	1418.8	1415.4	1417.1	1467.8	1503.8	1477.8	1498.2	1427.5	1431.8	1464.3	1440.1
10°	1054.7	1007.0	980.1	1018.3	1057.7	1043.4	1008.3	985.3	1001.4	1037.4	1034.8
12.5°	828.8	760.3	720.0	692.7	725.2	698.4	697.5	677.6	655.9	659.8	717.4
15°	623.4	573.5	525.8	482.0	481.2	472.1	425.7	373.7	369.3	371.9	401.8
17.5°	428.7	411.8	392.3	354.6	344.6	306.5	261.4	240.6	230.2	235.0	244.9
20°	301.3	294.8	296.9	276.6	262.3	225.9	199.4	191.2	189.4	194.2	199.0
22.5°	249.7	238.0	236.7	227.6	213.3	186.8	172.5	167.8	165.6	169.9	173.4
25°	218.5	206.8	202.0	196.4	181.2	163.0	154.3	150.0	147.8	150.4	152.6
27.5°	192.5	181.6	177.3	173.4	158.7	145.7	138.7	134.8	133.1	133.9	136.1
30°	173.0	163.4	157.8	153.0	140.5	131.3	125.3	121.4	119.6	119.6	121.8
32.5°	152.6	147.4	142.2	136.1	124.4	118.3	112.3	107.9	106.2	106.6	108.4
35°	127.0	125.3	126.6	120.9	111.0	105.8	99.7	94.9	93.6	94.1	95.8
37.5°	112.7	104.9	109.7	106.6	101.0	94.1	86.3	81.9	79.8	81.1	81.9
40°	103.6	94.1	90.6	93.6	92.8	81.5	74.6	70.2	68.5	68.9	69.8
42.5°	95.8	84.5	76.7	76.3	81.5	71.1	63.7	59.8	57.7	57.7	58.5
45°	88.4	76.3	66.8	59.4	68.5	60.3	53.3	49.9	47.3	47.3	47.7
47.5°	82.8	69.4	58.1	48.6	51.6	49.4	43.8	40.3	37.7	37.7	38.1
50°	77.6	62.4	50.3	40.7	38.6	40.7	35.5	31.6	29.9	29.5	30.3
52.5°	72.0	55.5	42.9	34.7	30.3	30.8	27.7	25.1	23.0	23.0	23.8
55°	66.3	49.9	37.3	29.5	25.1	23.0	22.1	20.4	18.6	18.6	19.5
57.5°	60.7	43.8	31.6	24.3	19.9	18.2	18.2	16.9	15.6	15.6	16.5
60°	55.5	37.7	26.0	19.9	15.6	15.2	15.6	14.3	13.4	13.4	14.3
62.5°	49.4	32.1	21.2	16.5	12.6	12.1	13.4	12.6	11.7	11.7	12.6
65°	42.0	27.3	16.9	12.6	9.5	9.5	11.3	10.4	9.5	9.5	10.4
67.5°	35.5	23.0	13.0	9.1	6.9	7.4	9.5	8.7	8.2	8.2	9.1
70°	29.5	17.8	9.1	5.6	3.9	5.6	7.4	7.4	7.4	7.4	8.2
72.5°	22.1	12.1	5.2	2.2	1.7	3.9	6.1	6.9	6.5	6.5	7.8
75°	14.3	6.9	1.7	0.0	0.0	2.2	4.8	5.6	5.6	5.2	6.5
77.5°	8.2	2.2	0.0	0.0	0.0	0.0	3.0	2.6	2.2	1.7	3.0
80°	2.2	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-SA2C-727-U-SLL-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0	3070.0
2.5°	2705.0	2756.2	2828.1	2904.4	3021.9	3115.1	3206.6	3285.0	3315.4	3327.9
5°	2141.0	2216.0	2321.4	2456.6	2668.6	2859.3	3052.7	3247.3	3331.8	3353.1
7.5°	1536.3	1632.1	1766.1	1935.6	2183.9	2431.0	2701.1	2986.8	3117.7	3150.6
10°	1137.1	1254.1	1407.6	1586.2	1823.3	2077.3	2371.6	2698.1	2847.6	2891.4
12.5°	806.7	965.0	1170.4	1387.6	1593.1	1819.8	2117.6	2477.4	2634.3	2681.6
15°	473.8	626.8	870.0	1160.9	1424.0	1653.8	1956.4	2364.3	2537.2	2584.9
17.5°	271.8	348.1	531.9	856.2	1213.3	1531.5	1905.6	2392.5	2596.2	2640.4
20°	207.6	231.9	306.5	551.4	967.1	1411.5	1905.6	2552.0	2803.0	2868.0
22.5°	181.6	199.4	229.8	329.0	711.8	1282.7	1927.7	2782.6	3110.8	3182.7
25°	161.3	177.3	203.3	247.5	485.5	1129.7	1980.2	3065.7	3473.2	3566.4
27.5°	144.4	159.5	182.9	216.7	332.1	945.0	2050.9	3397.7	3872.8	3947.4
30°	129.2	143.5	164.7	188.6	256.2	735.6	2111.1	3710.7	4186.7	4266.9
32.5°	114.9	127.9	147.0	164.7	209.8	544.0	2117.6	3958.7	4447.2	4527.0
35°	101.4	113.1	130.5	144.4	173.8	429.6	2016.6	4173.7	4707.7	4813.1
37.5°	88.4	99.7	114.9	125.3	153.0	350.3	1862.3	4413.4	5042.0	5139.5
40°	76.3	86.3	101.9	108.8	144.8	269.2	1694.5	4664.8	5369.7	5459.0
42.5°	65.0	74.6	89.7	103.2	127.0	201.1	1513.3	4900.6	5664.5	5758.1
45°	54.2	64.2	79.3	109.2	105.3	150.4	1319.6	5057.1	5897.3	5999.1
47.5°	43.8	55.1	75.9	104.0	84.1	110.5	1166.1	5205.4	6073.7	6174.3
50°	35.1	46.4	85.4	92.8	68.9	84.5	1101.9	5338.0	6189.4	6286.1
52.5°	28.6	39.0	80.6	71.1	57.7	69.8	1136.6	5553.1	6296.5	6357.2
55°	23.8	30.8	48.6	49.4	49.0	59.4	1179.5	5861.7	6573.5	6602.1
57.5°	20.8	24.7	33.8	38.1	41.2	52.9	1180.4	6304.7	7002.2	7020.0
60°	17.8	21.7	28.2	30.8	35.5	47.3	1137.5	6459.5	7170.9	7229.8
62.5°	15.6	19.1	23.4	25.6	29.9	42.5	1036.9	6235.4	6939.4	7039.5
65°	13.9	17.3	19.5	21.7	26.4	38.1	871.3	5787.1	6555.3	6659.8
67.5°	12.1	15.2	17.3	19.5	23.8	33.8	641.6	5266.5	6114.4	6201.1
70°	10.8	13.4	15.6	17.3	20.8	28.6	389.3	4468.9	5504.9	5540.9
72.5°	10.4	12.1	14.3	15.6	18.2	25.1	197.2	3284.1	4400.8	4459.4
75°	9.1	10.8	13.0	13.9	16.0	21.7	80.2	2157.1	3189.2	3283.3
77.5°	7.4	10.0	11.7	12.6	13.9	17.8	40.7	1378.5	2238.1	2298.8
80°	2.6	7.4	10.0	10.4	11.7	13.0	26.9	754.7	1298.3	1324.3
82.5°	0.0	4.8	7.8	7.4	8.2	10.0	17.3	358.9	857.0	866.6
85°	0.0	2.2	6.1	4.8	3.5	6.9	6.1	78.5	449.5	468.2
87.5°	0.0	0.0	0.4	2.2	1.7	2.6	0.9	0.4	40.7	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)