

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: P386980

Luminaire Tested: GAW-SA2D-722-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2D-722-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8824 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

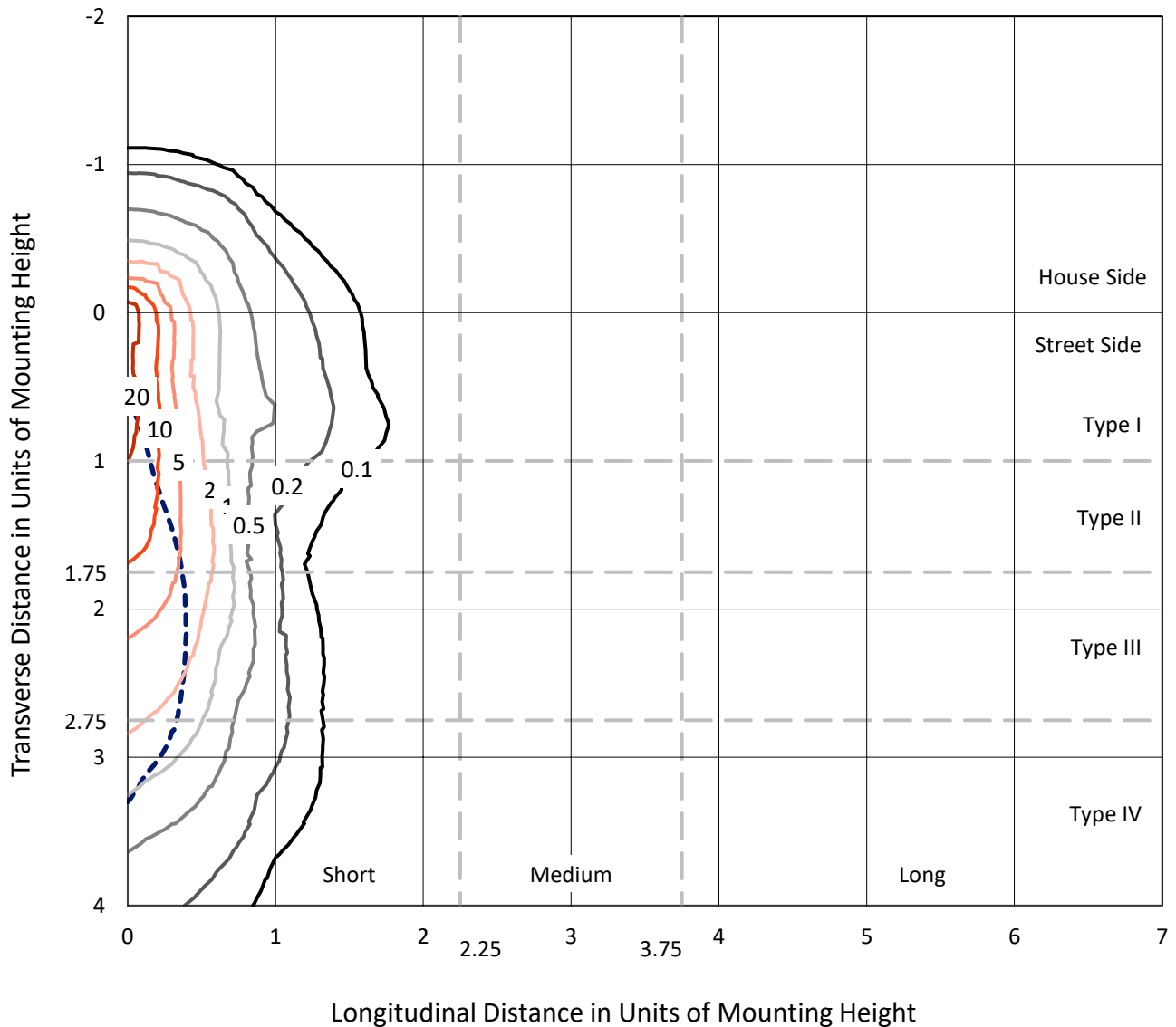
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

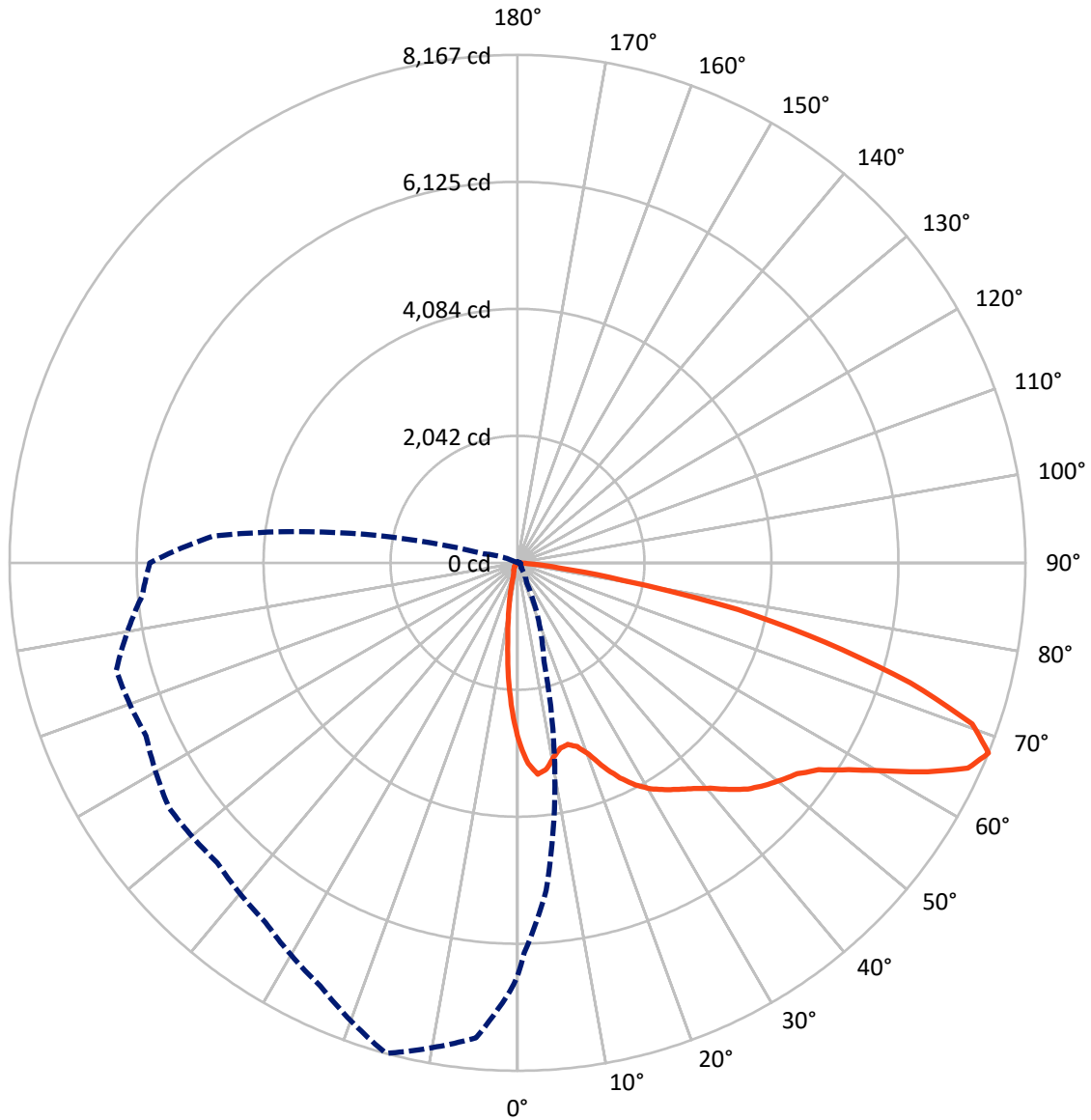
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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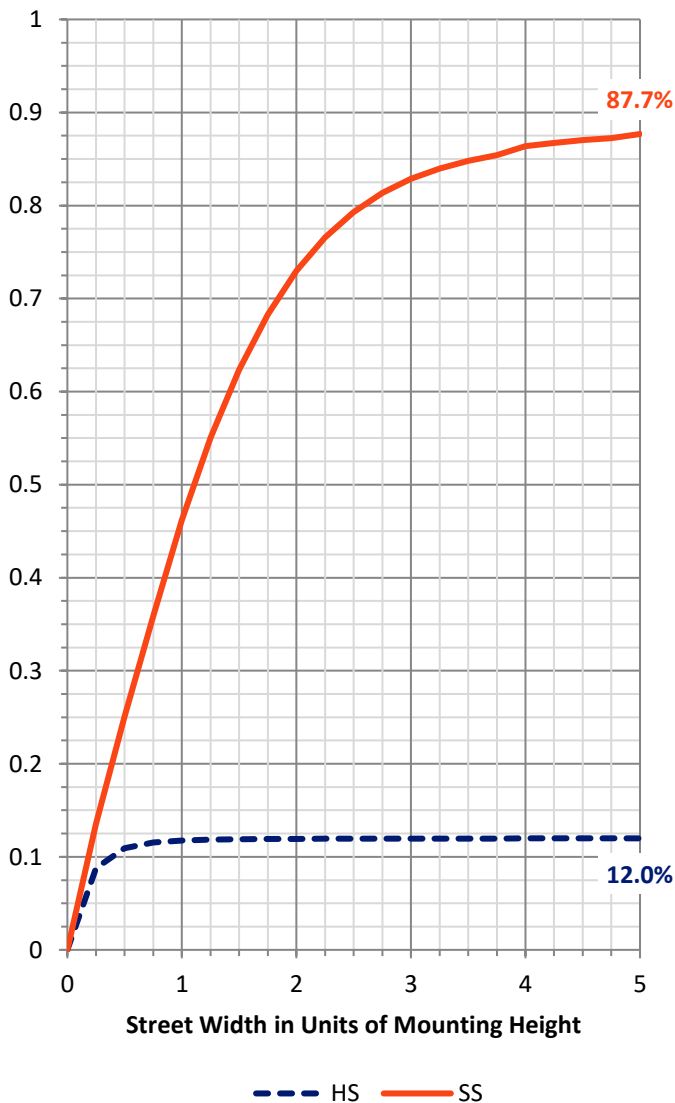
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1068.0	0.0	1068.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	7756.0	0.0	7756.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	8824.0	0.0	8824.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	2.5
10°-20°	439.1	5.0
20°-30°	623.5	7.1
30°-40°	921.0	10.4
40°-50°	1328.3	15.1
50°-60°	1864.7	21.1
60°-70°	2173.6	24.6
70°-80°	1111.2	12.6
80°-90°	141.9	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°	8824.0	100.0
0°-180°	8824.0	100.0

**Coefficient of Utilization**

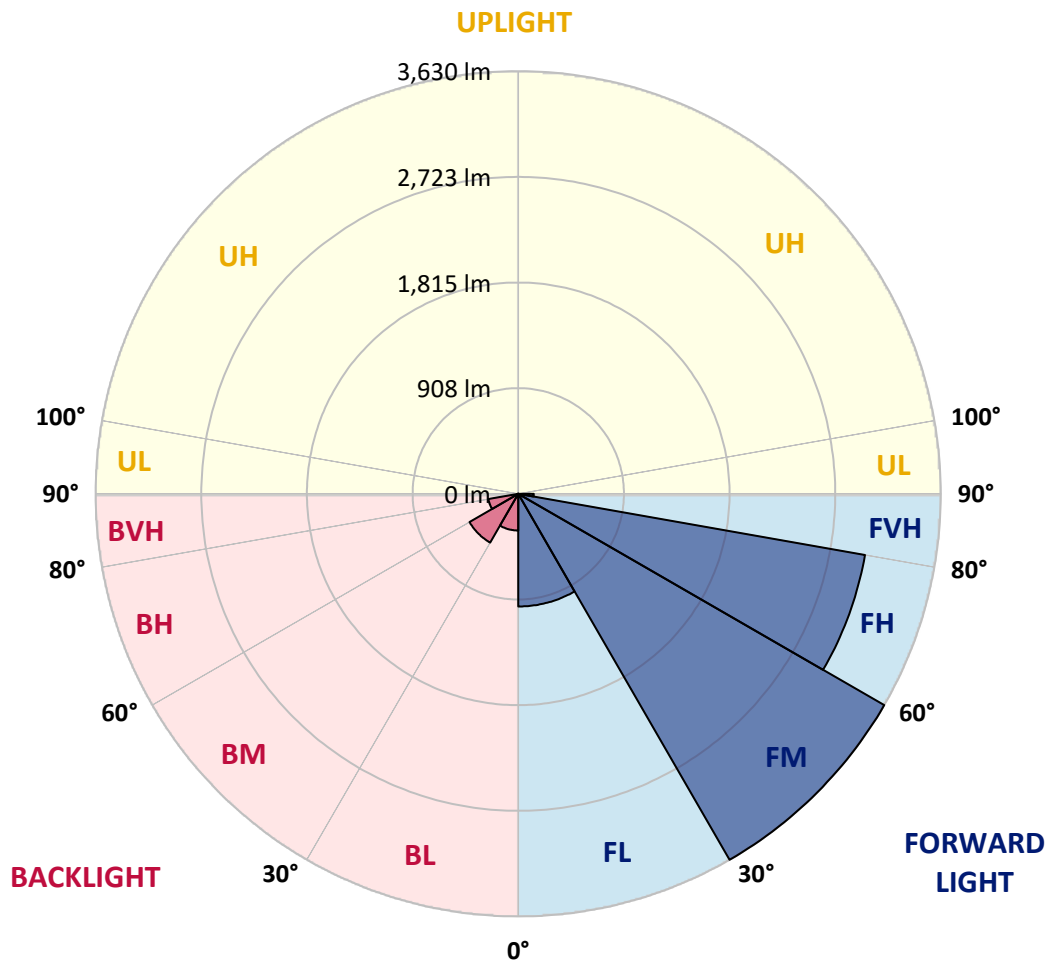


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	967.8	11.0			
FM (30°-60°)	3630.3	41.1			
FH (60°-80°)	3024.6	34.3			G2/5000
FVH (80°-90°)	133.3	1.5			G2/225
BL (0°-30°)	315.4	3.6	B1/500		
BM (30°-60°)	483.6	5.5	B1/1000		
BH (60°-80°)	260.3	2.9	B1/500		G1/500
BVH (80°-90°)	8.6	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4
2.5°	3147.4	3123.1	3096.4	3009.0	2927.9	2835.1	2759.4	2706.8	2640.7	2555.0	2533.3
5°	3124.8	3098.9	3014.9	2820.5	2650.3	2484.8	2325.1	2231.5	2115.3	1997.4	1968.1
7.5°	2897.8	2870.6	2749.4	2483.1	2254.0	2014.9	1807.6	1679.2	1548.0	1440.1	1382.9
10°	2661.6	2631.9	2495.7	2172.5	1890.3	1674.2	1522.1	1399.6	1275.4	1160.0	1068.1
12.5°	2499.0	2460.1	2312.1	1945.9	1700.1	1553.4	1411.3	1264.6	1096.5	972.8	871.6
15°	2430.9	2386.6	2230.2	1858.6	1632.8	1460.6	1275.4	1095.2	898.4	756.6	663.8
17.5°	2483.5	2425.9	2258.2	1852.7	1548.4	1313.9	1079.8	868.3	654.6	511.3	445.2
20°	2662.5	2586.8	2374.0	1851.1	1446.0	1139.6	842.8	603.6	431.4	347.0	312.3
22.5°	2944.2	2844.3	2540.4	1864.4	1340.2	956.5	608.7	410.1	324.0	280.1	259.6
25°	3284.5	3168.7	2779.9	1911.7	1247.4	778.4	442.3	324.0	273.4	241.2	224.1
27.5°	3608.1	3514.0	3082.6	1979.8	1175.5	634.6	359.1	274.6	233.7	212.4	198.6
30°	3931.2	3812.9	3393.2	2060.9	1089.0	537.2	315.6	250.4	209.4	186.9	178.1
32.5°	4166.1	4067.9	3636.5	2119.4	996.6	473.6	282.2	229.1	195.6	172.6	159.7
35°	4442.4	4331.3	3845.1	2132.4	937.2	433.5	253.7	206.1	169.7	149.2	135.4
37.5°	4740.9	4602.6	4085.9	2104.0	890.8	413.9	232.4	195.6	158.4	137.5	122.9
40°	5071.2	4914.8	4317.0	2063.0	845.3	407.2	216.1	187.7	149.7	128.3	113.3
42.5°	5419.0	5234.6	4517.3	2019.9	816.4	384.2	214.5	179.8	143.0	120.0	104.9
45°	5711.2	5524.3	4722.9	2005.7	795.9	359.1	221.6	174.3	138.4	113.3	98.7
47.5°	5944.0	5767.2	4933.6	2037.5	784.2	336.1	201.9	181.4	135.9	107.4	93.2
50°	6222.0	6021.8	5230.4	2132.4	767.1	313.1	182.7	207.8	135.9	103.7	88.6
52.5°	6570.7	6372.5	5561.5	2279.5	732.8	281.3	164.3	208.2	137.1	98.7	82.8
55°	7009.2	6865.4	6034.3	2440.9	678.1	234.5	142.1	178.9	132.1	89.5	77.3
57.5°	7429.7	7312.3	6465.3	2551.3	604.9	183.1	123.7	144.2	120.8	78.6	69.0
59°	7544.7	7416.3	6623.3	2556.3	550.1	159.7	114.5	119.1	118.3	73.6	64.0
60°	7544.7	7408.4	6668.9	2529.5	510.4	146.7	108.7	106.2	123.3	70.2	61.0
62.5°	7408.0	7216.5	6520.9	2348.5	416.4	125.0	94.9	87.8	110.8	63.1	53.9
65°	7123.7	6844.9	6016.8	2021.2	371.2	114.5	81.9	71.9	76.9	55.6	47.2
67.5°	6649.7	6271.8	5289.8	1632.8	353.2	111.6	70.6	61.0	58.1	47.7	41.4
70°	5814.9	5395.6	4407.3	1283.8	337.8	110.4	59.4	51.4	46.8	40.1	35.1
72.5°	4232.2	3794.9	3129.0	1003.7	328.6	112.9	47.7	43.1	38.5	31.4	27.2
75°	2420.8	2134.5	1758.7	663.0	280.1	107.9	36.8	36.0	27.6	22.6	18.8
77.5°	1250.8	1212.7	1053.9	254.6	134.2	47.2	24.2	20.9	16.3	13.8	11.3
80°	539.7	533.8	461.9	73.6	35.5	26.3	13.8	8.8	7.5	5.9	4.6
82.5°	186.4	186.4	164.3	24.7	15.9	13.0	1.7	0.0	0.0	0.0	0.0
85°	37.6	42.2	29.7	0.0	5.4	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°	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4
2.5°	2506.9	2456.4	2453.0	2421.3	2381.5	2363.6	2353.1	2371.5	2394.1	2396.6	2430.4
5°	1945.9	1892.9	1915.0	1858.6	1869.9	1858.6	1840.2	1843.5	1853.6	1822.2	1861.1
7.5°	1366.6	1326.4	1351.9	1336.9	1356.9	1364.9	1353.6	1336.9	1287.5	1281.7	1315.6
10°	1030.0	984.5	957.3	928.9	935.1	948.1	943.9	931.8	900.4	902.1	934.7
12.5°	827.7	776.7	722.8	653.0	635.8	645.4	635.8	628.7	598.6	601.1	630.0
15°	627.9	586.1	529.6	473.6	443.1	446.0	419.3	400.5	381.7	359.1	376.6
17.5°	423.9	398.4	381.7	364.9	328.6	320.2	286.4	250.0	235.8	225.3	232.8
20°	300.1	286.4	279.7	278.8	257.9	247.5	214.5	191.9	184.8	182.7	187.3
22.5°	250.8	240.8	231.2	225.7	215.3	203.2	178.1	166.8	161.8	159.3	162.6
25°	218.2	210.7	200.7	191.5	187.3	174.3	156.3	148.0	144.6	142.1	143.8
27.5°	194.0	187.3	175.6	169.7	166.4	155.1	139.6	132.9	130.0	129.2	128.8
30°	174.7	168.5	157.6	150.9	145.1	135.0	125.8	119.1	116.2	115.4	114.5
32.5°	155.5	150.5	143.4	136.7	130.4	121.2	113.3	107.9	103.3	102.4	102.0
35°	131.3	126.2	122.5	122.1	116.2	107.4	101.6	94.5	90.7	89.5	89.9
37.5°	116.6	109.9	101.6	104.5	102.8	96.6	88.6	81.5	77.8	76.9	76.9
40°	107.4	100.3	90.7	85.7	90.7	89.5	76.9	69.8	66.0	65.6	64.8
42.5°	98.7	91.5	80.7	72.3	74.8	78.6	66.5	59.8	56.0	55.2	53.9
45°	92.4	84.9	72.7	63.1	58.1	66.0	56.9	48.5	46.4	44.7	43.9
47.5°	86.5	79.4	65.6	54.8	46.4	47.7	45.6	39.7	37.2	35.5	35.1
50°	81.5	74.0	59.4	46.8	38.5	35.1	36.8	31.4	29.3	27.6	26.8
52.5°	75.7	68.6	52.7	40.5	32.2	27.6	28.0	24.7	22.6	21.3	20.9
55°	71.1	64.0	47.2	35.5	28.4	22.6	20.1	19.2	18.0	17.1	16.7
57.5°	64.8	58.1	41.8	30.1	24.2	18.4	15.5	15.5	15.0	14.2	13.8
59°	61.0	55.2	38.5	27.2	22.2	15.9	13.8	14.2	13.8	13.0	12.5
60°	58.1	52.7	36.0	25.1	20.9	14.6	12.5	13.4	13.0	12.1	11.7
62.5°	51.4	47.7	30.9	20.9	18.4	11.7	10.5	11.3	11.3	10.9	10.5
65°	45.1	41.0	26.3	17.6	17.1	10.0	8.4	10.0	10.5	9.6	8.8
67.5°	39.3	35.1	23.0	14.2	15.9	7.9	6.3	8.4	11.3	8.8	7.9
70°	33.4	29.3	18.0	11.3	16.7	5.4	5.0	7.5	13.4	9.6	7.5
72.5°	25.9	22.6	12.5	8.4	18.0	3.8	3.8	6.3	15.0	10.5	7.1
75°	18.0	14.6	7.5	5.0	14.6	2.5	2.5	5.9	14.2	9.6	6.7
77.5°	10.5	7.9	2.5	0.4	7.5	0.0	0.4	4.2	10.0	5.9	2.9
80°	3.8	1.7	0.0	0.0	4.6	0.0	0.0	0.0	0.8	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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**CANDELA DISTRIBUTION (continued):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4
2.5°	2439.2	2495.7	2546.2	2622.7	2713.5	2818.0	2907.8	3004.4	3095.1	3132.7	3158.7
5°	1869.0	1938.8	2020.4	2132.8	2282.5	2466.8	2639.5	2834.7	3044.5	3149.5	3248.1
7.5°	1321.4	1392.5	1493.6	1613.2	1794.2	2013.7	2239.4	2509.0	2793.3	2959.3	3122.7
10°	950.2	1037.6	1132.0	1295.5	1479.4	1687.6	1920.0	2221.0	2537.9	2721.8	2918.7
12.5°	646.7	746.2	889.2	1072.3	1288.4	1492.4	1694.3	1981.5	2349.4	2531.6	2742.7
15°	387.9	443.1	594.4	806.4	1071.4	1325.6	1546.7	1834.8	2226.9	2450.1	2669.6
17.5°	239.1	264.6	347.0	520.9	799.3	1120.7	1423.8	1785.0	2244.4	2516.1	2751.1
20°	190.6	200.7	227.0	307.7	529.6	895.0	1285.5	1775.0	2387.8	2722.2	2974.3
22.5°	165.5	175.2	192.7	223.6	333.2	670.1	1154.2	1784.2	2593.5	3031.2	3325.5
25°	145.9	154.3	171.0	196.5	244.1	472.0	1013.7	1825.1	2861.4	3414.5	3727.2
27.5°	130.4	137.5	153.0	176.4	209.4	329.4	854.5	1874.9	3179.1	3806.6	4115.1
30°	116.2	122.5	136.3	158.0	181.8	253.3	679.7	1908.7	3497.3	4115.1	4392.3
32.5°	104.1	108.7	121.2	139.6	158.0	201.9	516.7	1903.3	3733.5	4371.8	4591.7
35°	91.5	96.1	107.0	122.9	137.5	166.8	406.3	1801.7	3939.1	4638.1	4819.9
37.5°	77.8	83.6	94.1	108.3	118.3	146.7	328.6	1679.2	4147.7	4942.4	5074.5
40°	66.0	71.9	81.1	96.6	102.8	139.2	252.5	1530.0	4382.3	5282.7	5353.8
42.5°	54.8	60.2	69.8	83.2	97.0	120.0	186.9	1359.4	4607.6	5573.6	5608.3
45°	44.3	49.7	59.8	73.2	103.7	99.5	144.6	1176.8	4789.4	5815.7	5827.0
47.5°	35.1	40.1	50.6	69.0	96.6	79.4	103.3	1033.4	4942.0	6004.6	5975.0
50°	27.2	31.4	42.2	79.0	84.4	65.6	78.2	985.7	5078.7	6121.7	6044.8
52.5°	21.3	25.1	34.7	74.0	65.6	54.3	65.6	1030.5	5266.0	6218.7	6084.1
55°	17.1	20.9	27.2	42.2	44.7	46.0	56.0	1072.3	5589.1	6446.1	6316.1
57.5°	14.2	18.0	22.2	29.7	33.9	38.9	49.7	1076.9	5969.9	6824.0	6701.1
59°	13.0	16.3	20.1	26.3	29.7	35.5	46.8	1051.8	6104.1	6961.5	6900.1
60°	12.1	15.5	18.8	24.2	27.6	33.4	45.1	1027.9	6110.0	6956.5	6984.9
62.5°	10.5	13.8	16.7	20.5	23.4	28.4	40.5	939.7	5862.5	6728.7	6933.9
65°	9.2	12.1	15.0	17.6	20.1	25.5	36.8	778.8	5439.9	6361.2	6584.9
67.5°	8.4	10.5	13.8	15.5	18.0	22.6	32.6	555.1	4911.9	5911.8	6056.9
70°	7.5	10.0	12.5	14.2	16.3	19.6	28.0	319.0	4147.7	5253.9	5357.1
72.5°	7.1	9.6	11.3	13.4	14.6	17.6	25.5	150.1	3037.0	4208.8	4478.4
75°	6.3	8.8	10.5	12.5	13.8	15.9	21.7	71.9	2019.9	3045.8	3352.2
77.5°	3.8	7.1	9.6	11.3	12.1	13.8	18.0	41.4	1289.2	2108.1	2483.1
80°	0.0	2.5	7.1	9.6	10.5	11.7	13.8	32.6	689.8	1204.4	1445.6
82.5°	0.0	0.0	5.0	7.5	7.1	7.9	10.5	20.5	311.0	787.2	887.1
85°	0.0	0.0	1.7	5.9	5.0	3.8	7.1	7.1	68.1	398.4	497.0
87.5°	0.0	0.0	0.0	0.4	2.5	1.7	2.9	0.8	0.4	29.7	120.4
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-722-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4	2874.4
2.5°	3249.4	3280.3	3332.6	3357.2	3345.1	3293.7	3232.2	3169.5	3132.7	3147.4
5°	3449.2	3608.5	3700.4	3731.0	3680.0	3564.6	3413.7	3214.7	3144.0	3124.8
7.5°	3449.2	3748.9	3938.7	3972.2	3858.5	3632.3	3349.3	3038.7	2935.4	2897.8
10°	3328.0	3736.0	4000.6	4053.7	3894.8	3556.6	3177.5	2823.0	2700.5	2661.6
12.5°	3191.3	3630.6	3909.5	3982.6	3852.2	3481.4	3058.3	2677.1	2532.9	2499.0
15°	3107.2	3501.0	3731.8	3784.9	3729.7	3437.5	3029.9	2633.2	2463.5	2430.9
17.5°	3137.3	3400.7	3483.9	3514.8	3552.0	3422.0	3107.2	2729.3	2514.5	2483.5
20°	3250.6	3294.9	3251.9	3290.8	3391.1	3437.1	3291.6	2961.8	2703.8	2662.5
22.5°	3442.9	3240.2	3119.4	3134.8	3256.9	3486.8	3573.4	3293.7	2996.0	2944.2
25°	3667.0	3284.5	3045.8	3032.0	3157.4	3552.5	3830.9	3654.9	3341.8	3284.5
27.5°	3948.7	3384.0	3030.7	3017.0	3122.7	3613.9	4044.9	4011.9	3705.9	3608.1
30°	4166.1	3481.8	3075.5	3043.7	3157.4	3656.5	4216.7	4314.9	3996.0	3931.2
32.5°	4322.1	3597.2	3148.2	3102.2	3255.2	3730.1	4349.2	4592.5	4264.4	4166.1
35°	4440.8	3722.6	3265.7	3190.0	3389.8	3841.7	4473.4	4888.1	4549.9	4442.4
37.5°	4552.0	3898.6	3449.2	3358.9	3600.9	4021.5	4604.6	5223.3	4869.3	4740.9
40°	4707.1	4098.0	3732.2	3651.9	3955.9	4266.5	4768.5	5572.8	5232.5	5071.2
42.5°	4862.2	4312.0	4021.9	4043.6	4398.6	4564.1	4980.0	5942.4	5591.2	5419.0
45°	5003.9	4532.7	4434.5	4534.8	4809.5	4890.6	5190.3	6156.0	5877.6	5711.2
47.5°	5130.1	4808.6	4844.6	5111.7	5276.8	5186.1	5347.5	6340.3	6090.8	5944.0
50°	5276.8	5165.6	5385.1	5763.0	5814.9	5453.7	5490.5	6558.5	6339.9	6222.0
52.5°	5437.4	5541.9	5983.7	6316.9	6300.2	5744.2	5634.3	6803.1	6681.4	6570.7
55°	5619.6	5845.8	6510.9	6835.3	6821.1	6068.6	5872.5	7105.3	7109.5	7009.2
57.5°	5890.1	6107.5	6868.7	7254.6	7278.4	6443.2	6276.4	7443.9	7496.6	7429.7
59°	6084.1	6277.2	7010.4	7429.7	7526.7	6732.9	6571.5	7640.4	7605.7	7544.7
60°	6227.9	6385.1	7080.7	7521.3	7670.9	6929.3	6789.3	7755.8	7618.7	7544.7
62.5°	6583.6	6620.0	7207.3	7624.9	7836.9	7365.8	7402.1	7952.3	7528.8	7408.0
65°	6749.6	6768.4	7205.7	7439.3	7676.4	7705.6	7958.1	7958.1	7309.3	7123.7
67.5°	6680.2	6589.5	6848.2	6824.0	7060.6	7503.7	8167.1	7666.3	6889.6	6649.7
70°	6115.8	5766.8	5651.8	5662.3	5843.3	6526.8	7753.3	6807.7	6095.4	5814.9
72.5°	5088.7	4251.4	3967.6	4291.5	4338.8	5016.0	6607.4	5126.8	4495.1	4232.2
75°	4093.0	2996.9	2535.4	2877.3	2957.6	3670.8	5111.3	3192.9	2625.7	2420.8
77.5°	2940.5	2151.2	1819.3	1795.5	1899.1	2328.0	3626.9	1606.9	1340.2	1250.8
80°	1670.5	1415.9	1524.6	1438.5	1490.7	1455.6	1723.1	704.8	577.3	539.7
82.5°	1008.3	836.9	906.3	754.6	954.8	831.5	663.8	225.7	196.1	186.4
85°	655.9	457.3	238.3	159.7	329.0	531.3	148.4	61.5	47.2	37.6
87.5°	226.2	116.6	11.7	5.0	35.1	99.1	5.4	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

(END OF REPORT)