

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: P386616

Luminaire Tested: GAW-SA2B-735-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386616  
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-SA2B-735-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 800mA 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: 8306.1 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

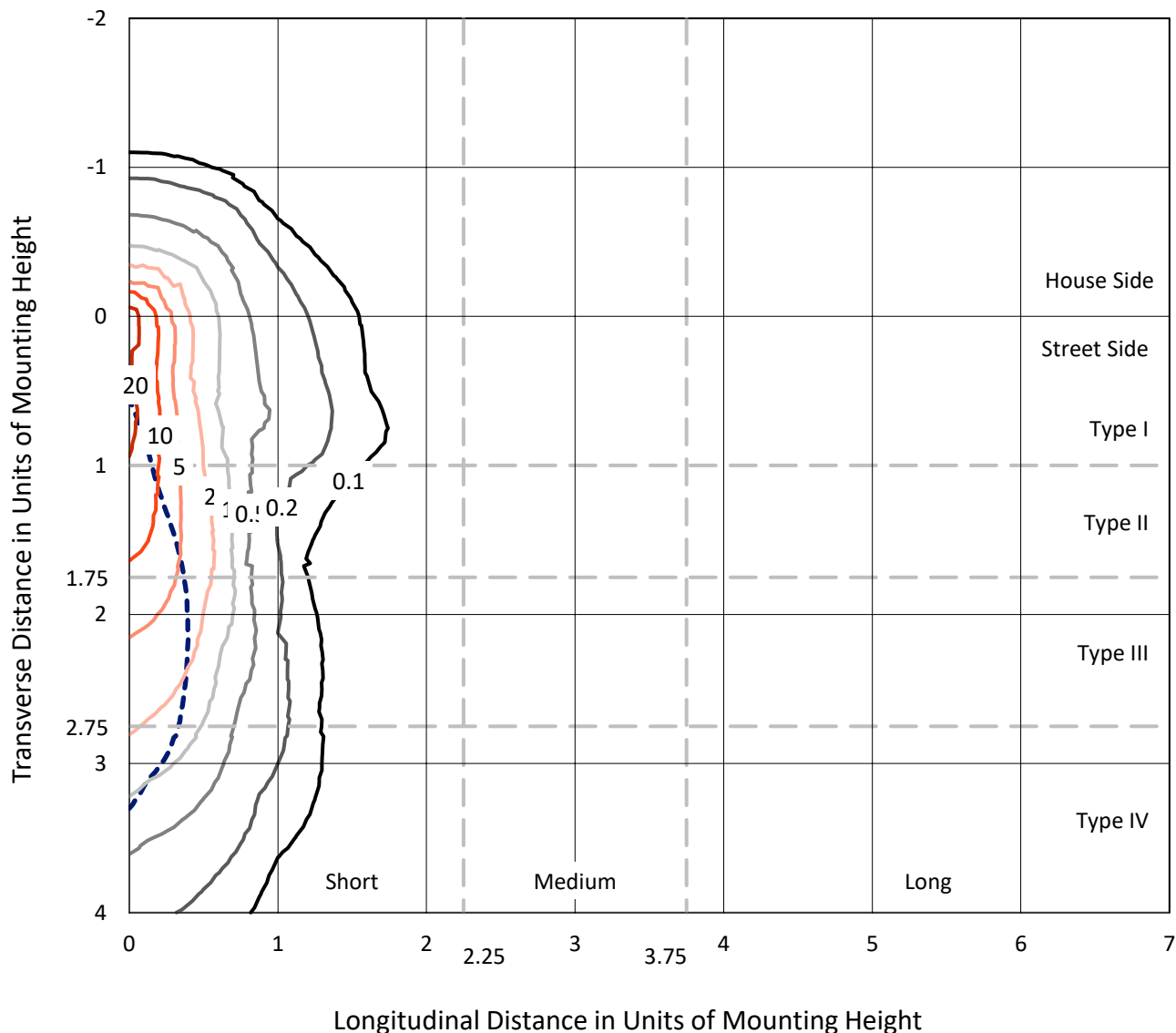
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

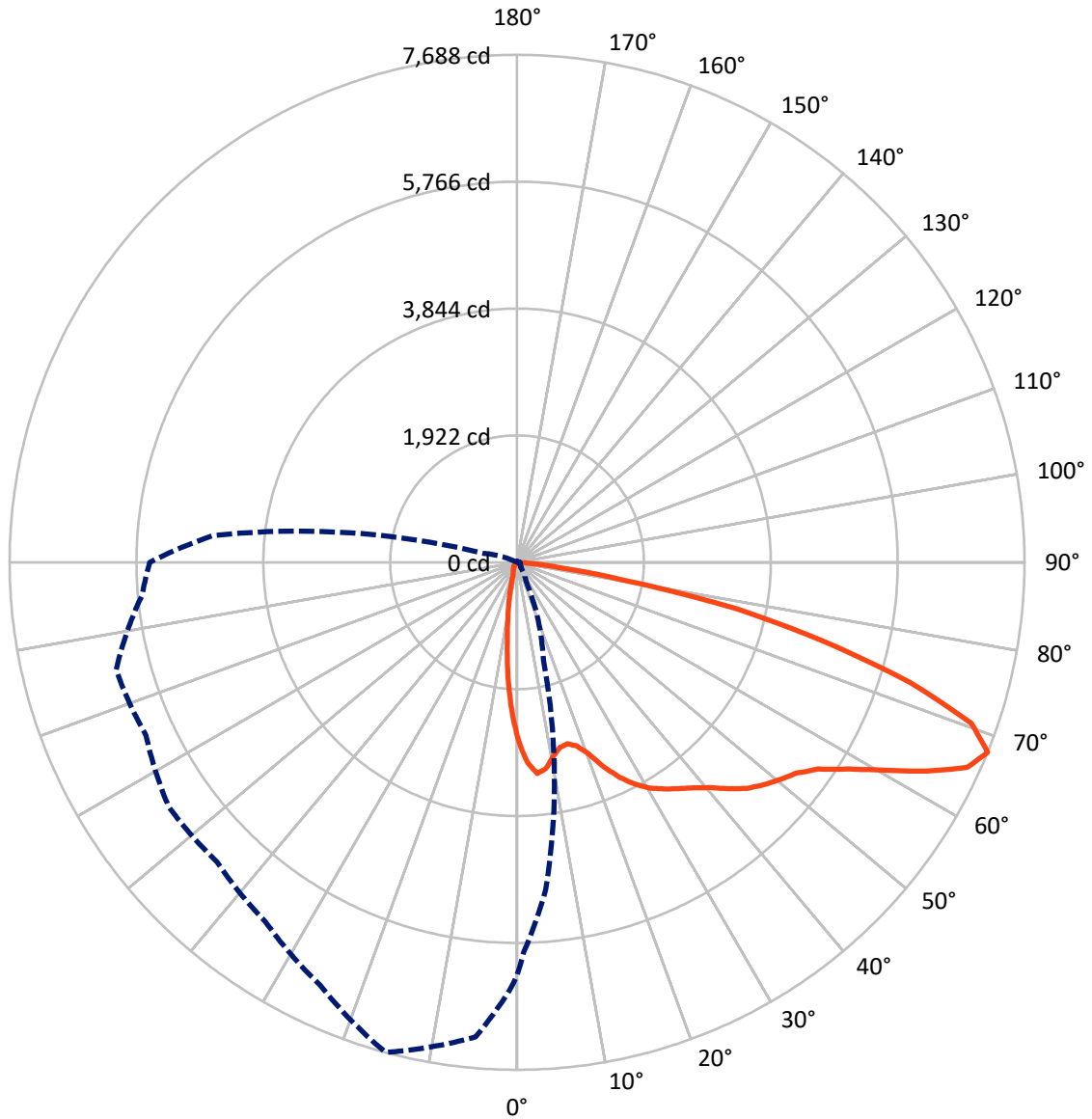
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.1 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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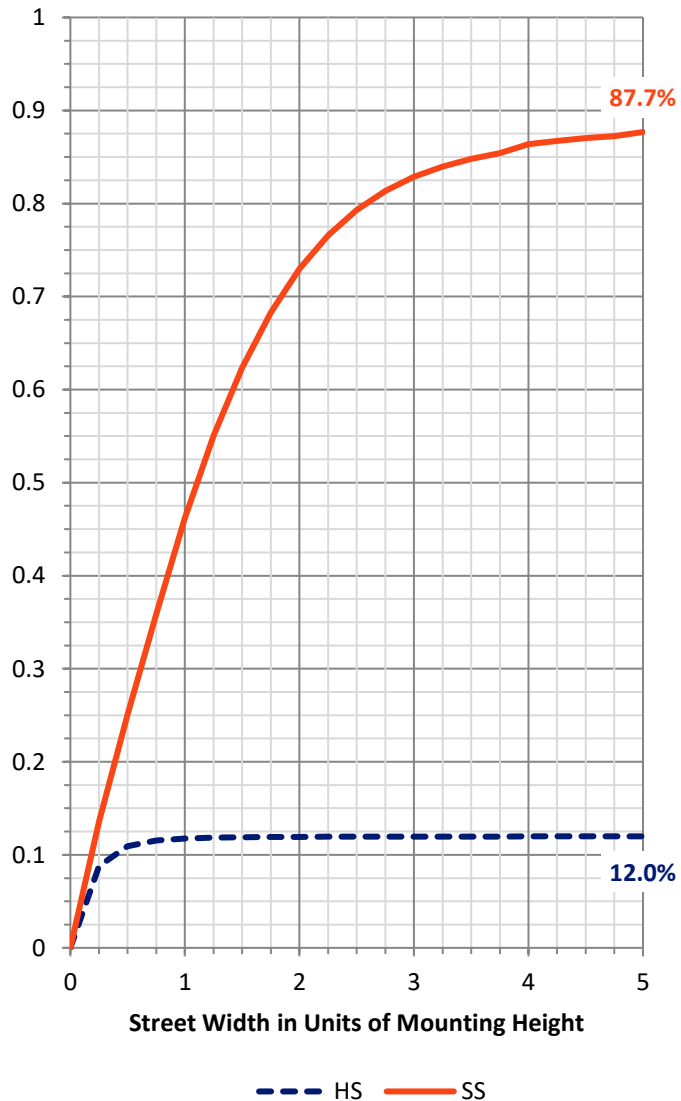
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1005.3	0.0	1005.3
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	7300.8	0.0	7300.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	8306.1	0.0	8306.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.7	2.5
10°-20°	413.3	5.0
20°-30°	586.9	7.1
30°-40°	867.0	10.4
40°-50°	1250.3	15.1
50°-60°	1755.2	21.1
60°-70°	2046.1	24.6
70°-80°	1046.0	12.6
80°-90°	133.6	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°	8306.1	100.0
0°-180°	8306.1	100.0

**Coefficient of Utilization**

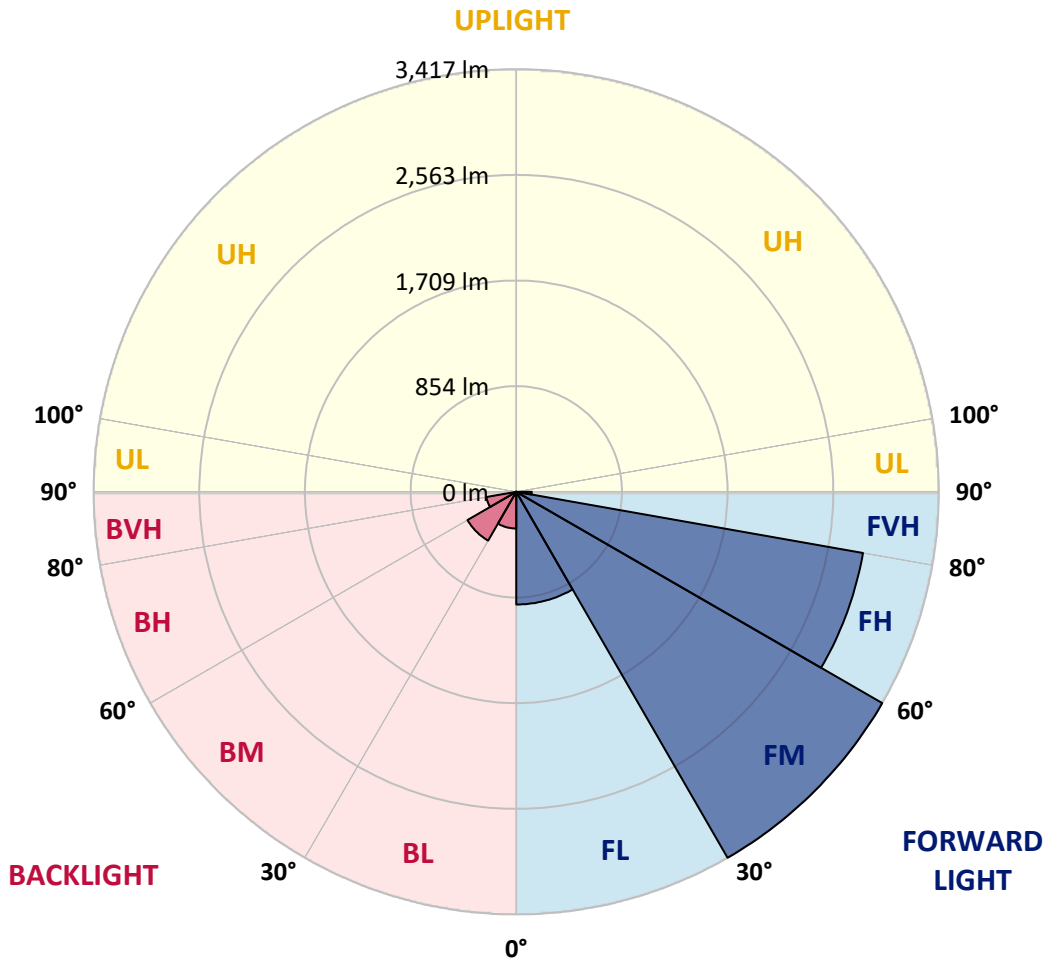


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.0	11.0			
FM (30°-60°)	3417.3	41.1			
FH (60°-80°)	2847.0	34.3			G2/5000
FVH (80°-90°)	125.5	1.5			G2/225
BL (0°-30°)	296.9	3.6	B1/500		
BM (30°-60°)	455.2	5.5	B1/1000		
BH (60°-80°)	245.0	2.9	B1/500		G1/500
BVH (80°-90°)	8.1	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7
2.5°	2962.7	2939.8	2914.7	2832.4	2756.1	2668.7	2597.5	2547.9	2485.7	2405.0	2384.7
5°	2941.4	2917.0	2837.9	2654.9	2494.7	2339.0	2188.6	2100.5	1991.1	1880.1	1852.6
7.5°	2727.7	2702.2	2588.0	2337.4	2121.7	1896.6	1701.5	1580.7	1457.1	1355.6	1301.7
10°	2505.5	2477.5	2349.2	2045.1	1779.4	1575.9	1432.8	1317.4	1200.5	1092.0	1005.4
12.5°	2352.3	2315.7	2176.5	1831.7	1600.4	1462.3	1328.5	1190.3	1032.1	915.6	820.5
15°	2288.2	2246.5	2099.4	1749.5	1537.0	1374.9	1200.5	1031.0	845.6	712.2	624.9
17.5°	2337.8	2283.5	2125.7	1744.0	1457.6	1236.8	1016.4	817.3	616.2	481.3	419.1
20°	2506.2	2435.0	2234.7	1742.4	1361.1	1072.7	793.3	568.2	406.1	326.6	293.9
22.5°	2771.4	2677.4	2391.3	1755.0	1261.6	900.3	572.9	386.0	304.9	263.7	244.3
25°	3091.7	2982.8	2616.8	1799.5	1174.2	732.7	416.3	304.9	257.4	227.1	210.9
27.5°	3396.3	3307.8	2901.7	1863.6	1106.5	597.4	338.0	258.5	220.0	199.9	186.9
30°	3700.5	3589.1	3194.0	1939.9	1025.1	505.7	297.1	235.7	197.2	175.9	167.6
32.5°	3921.6	3829.2	3423.1	1995.1	938.1	445.8	265.6	215.6	184.1	162.5	150.3
35°	4181.7	4077.1	3619.4	2007.2	882.2	408.1	238.9	194.0	159.8	140.4	127.5
37.5°	4462.7	4332.4	3846.1	1980.5	838.5	389.6	218.8	184.1	149.2	129.4	115.7
40°	4773.5	4626.4	4063.6	1941.9	795.7	383.3	203.5	176.7	140.9	120.8	106.6
42.5°	5100.9	4927.4	4252.2	1901.4	768.5	361.7	201.9	169.2	134.6	112.9	98.7
45°	5376.0	5200.1	4445.8	1888.0	749.3	338.0	208.5	164.1	130.3	106.6	92.9
47.5°	5595.2	5428.8	4644.1	1918.0	738.2	316.4	190.0	170.8	127.9	101.2	87.7
50°	5856.8	5668.4	4923.5	2007.2	722.1	294.7	172.0	195.6	127.9	97.6	83.4
52.5°	6185.1	5998.5	5235.1	2145.8	689.8	264.8	154.6	196.0	129.1	92.9	77.9
55°	6597.8	6462.5	5680.1	2297.7	638.2	220.8	133.8	168.4	124.4	84.2	72.8
57.5°	6993.7	6883.1	6085.9	2401.6	569.4	172.4	116.5	135.7	113.8	74.0	64.9
59°	7101.9	6981.1	6234.6	2406.3	517.9	150.3	107.8	112.2	111.3	69.2	60.2
60°	7101.9	6973.6	6277.5	2381.1	480.5	138.1	102.3	100.0	116.1	66.1	57.5
62.5°	6973.2	6792.9	6138.2	2210.7	391.9	117.6	89.3	82.7	104.3	59.5	50.7
65°	6705.6	6443.2	5663.6	1902.6	349.5	107.8	77.1	67.6	72.4	52.3	44.4
67.5°	6259.4	5903.7	4979.4	1537.0	332.5	105.0	66.5	57.5	54.7	44.9	39.0
70°	5473.6	5078.9	4148.6	1208.4	318.0	103.9	55.9	48.4	44.1	37.8	33.1
72.5°	3983.8	3572.2	2945.4	944.7	309.2	106.2	44.9	40.5	36.2	29.5	25.6
75°	2278.8	2009.2	1655.5	624.1	263.7	101.5	34.7	33.8	25.9	21.2	17.7
77.5°	1177.3	1141.6	992.0	239.6	126.3	44.4	22.8	19.6	15.3	13.0	10.6
80°	508.0	502.5	434.8	69.2	33.4	24.8	13.0	8.3	7.0	5.5	4.3
82.5°	175.5	175.5	154.6	23.2	14.9	12.2	1.6	0.0	0.0	0.0	0.0
85°	35.4	39.7	27.9	0.0	5.1	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°	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7
2.5°	2359.9	2312.2	2309.0	2279.2	2241.8	2224.9	2215.0	2232.3	2253.6	2256.0	2287.8
5°	1831.7	1781.7	1802.6	1749.5	1760.1	1749.5	1732.1	1735.3	1744.7	1715.2	1751.9
7.5°	1286.3	1248.5	1272.6	1258.4	1277.3	1284.8	1274.2	1258.4	1212.0	1206.5	1238.3
10°	969.5	926.7	901.2	874.4	880.2	892.4	888.5	877.1	847.6	849.2	879.8
12.5°	779.1	731.1	680.4	614.6	598.5	607.6	598.5	591.8	563.4	565.9	593.0
15°	591.1	551.7	498.5	445.8	417.1	419.9	394.6	377.0	359.2	338.0	354.5
17.5°	399.1	375.0	359.2	343.5	309.2	301.5	269.5	235.3	222.0	212.1	219.2
20°	282.6	269.5	263.2	262.5	242.8	233.0	201.9	180.6	173.9	172.0	176.3
22.5°	236.1	226.7	217.6	212.5	202.6	191.3	167.6	157.0	152.3	149.9	153.0
25°	205.4	198.3	188.9	180.3	176.3	164.1	147.2	139.3	136.1	133.8	135.4
27.5°	182.6	176.3	165.2	159.8	156.6	146.0	131.4	125.1	122.4	121.6	121.2
30°	164.5	158.6	148.3	142.0	136.6	127.1	118.5	112.2	109.4	108.6	107.8
32.5°	146.4	141.7	135.0	128.7	122.8	114.1	106.6	101.5	97.2	96.4	96.0
35°	123.5	118.8	115.3	114.9	109.4	101.2	95.6	89.0	85.4	84.2	84.6
37.5°	109.8	103.5	95.6	98.4	96.8	90.9	83.4	76.7	73.2	72.4	72.4
40°	101.2	94.4	85.4	80.7	85.4	84.2	72.4	65.8	62.2	61.8	61.0
42.5°	92.9	86.1	75.9	68.1	70.5	74.0	62.6	56.3	52.7	51.9	50.7
45°	87.0	79.8	68.5	59.5	54.7	62.2	53.5	45.7	43.7	42.1	41.3
47.5°	81.4	74.8	61.8	51.6	43.7	44.9	42.9	37.4	35.0	33.4	33.1
50°	76.7	69.6	55.9	44.1	36.2	33.1	34.7	29.5	27.5	25.9	25.2
52.5°	71.2	64.5	49.6	38.1	30.3	25.9	26.4	23.2	21.2	20.1	19.6
55°	66.9	60.2	44.4	33.4	26.8	21.2	18.9	18.1	16.9	16.2	15.8
57.5°	61.0	54.7	39.4	28.4	22.8	17.3	14.6	14.6	14.2	13.3	13.0
59°	57.5	51.9	36.2	25.6	20.9	14.9	13.0	13.3	13.0	12.2	11.8
60°	54.7	49.6	33.8	23.6	19.6	13.8	11.8	12.6	12.2	11.4	11.0
62.5°	48.4	44.9	29.1	19.6	17.3	11.0	9.9	10.6	10.6	10.2	9.9
65°	42.5	38.6	24.8	16.5	16.2	9.5	7.9	9.5	9.9	9.0	8.3
67.5°	37.0	33.1	21.6	13.3	14.9	7.5	5.9	7.9	10.6	8.3	7.5
70°	31.5	27.5	16.9	10.6	15.8	5.1	4.7	7.0	12.6	9.0	7.0
72.5°	24.4	21.2	11.8	7.9	16.9	3.6	3.6	5.9	14.2	9.9	6.7
75°	16.9	13.8	7.0	4.7	13.8	2.3	2.3	5.5	13.3	9.0	6.3
77.5°	9.9	7.5	2.3	0.4	7.0	0.0	0.4	3.9	9.5	5.5	2.7
80°	3.6	1.6	0.0	0.0	4.3	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°	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7
2.5°	2296.1	2349.2	2396.8	2468.8	2554.2	2652.6	2737.2	2828.0	2913.4	2948.9	2973.3
5°	1759.3	1825.1	1901.8	2007.7	2148.5	2322.1	2484.6	2668.3	2865.9	2964.6	3057.4
7.5°	1243.9	1310.7	1406.0	1518.5	1688.9	1895.5	2108.0	2361.8	2629.4	2785.6	2939.5
10°	894.4	976.7	1065.6	1219.4	1392.6	1588.5	1807.3	2090.6	2389.0	2562.1	2747.4
12.5°	608.7	702.4	837.0	1009.3	1212.8	1404.8	1594.8	1865.2	2211.4	2383.1	2581.7
15°	365.1	417.1	559.6	759.0	1008.5	1247.8	1456.0	1727.1	2096.2	2306.3	2512.9
17.5°	225.1	249.1	326.6	490.3	752.4	1054.9	1340.2	1680.2	2112.7	2368.5	2589.6
20°	179.4	188.9	213.7	289.6	498.5	842.4	1210.0	1670.8	2247.7	2562.5	2799.8
22.5°	155.8	164.9	181.4	210.5	313.7	630.8	1086.4	1679.4	2441.3	2853.2	3130.2
25°	137.3	145.2	160.9	185.0	229.8	444.2	954.2	1718.1	2693.5	3214.1	3508.4
27.5°	122.8	129.4	144.0	166.1	197.2	310.1	804.3	1764.8	2992.5	3583.2	3873.6
30°	109.4	115.3	128.3	148.7	171.2	238.4	639.8	1796.7	3292.0	3873.6	4134.5
32.5°	98.0	102.3	114.1	131.4	148.7	190.0	486.3	1791.6	3514.4	4115.2	4322.2
35°	86.1	90.5	100.7	115.7	129.4	157.0	382.5	1696.0	3708.0	4365.8	4537.1
37.5°	73.2	78.7	88.5	101.9	111.3	138.1	309.2	1580.7	3904.3	4652.3	4776.7
40°	62.2	67.6	76.4	90.9	96.8	131.0	237.7	1440.2	4125.1	4972.7	5039.6
42.5°	51.6	56.6	65.8	78.3	91.3	112.9	175.9	1279.6	4337.2	5246.5	5279.2
45°	41.7	46.8	56.3	68.9	97.6	93.7	136.1	1107.7	4508.3	5474.4	5485.0
47.5°	33.1	37.8	47.6	64.9	90.9	74.8	97.2	972.7	4652.0	5652.2	5624.2
50°	25.6	29.5	39.7	74.4	79.5	61.8	73.6	927.8	4780.7	5762.4	5690.0
52.5°	20.1	23.6	32.7	69.6	61.8	51.2	61.8	970.0	4956.9	5853.7	5727.0
55°	16.2	19.6	25.6	39.7	42.1	43.3	52.7	1009.3	5261.1	6067.7	5945.4
57.5°	13.3	16.9	20.9	27.9	31.8	36.6	46.8	1013.7	5619.5	6423.5	6307.8
59°	12.2	15.3	18.9	24.8	27.9	33.4	44.1	990.0	5745.9	6552.9	6495.1
60°	11.4	14.6	17.7	22.8	25.9	31.5	42.5	967.6	5751.3	6548.2	6575.0
62.5°	9.9	13.0	15.8	19.3	22.1	26.8	38.1	884.6	5518.5	6333.8	6527.0
65°	8.6	11.4	14.2	16.5	18.9	24.0	34.7	733.1	5120.6	5987.9	6198.4
67.5°	7.9	9.9	13.0	14.6	16.9	21.2	30.7	522.6	4623.6	5564.9	5701.4
70°	7.0	9.5	11.8	13.3	15.3	18.5	26.4	300.2	3904.3	4945.5	5042.7
72.5°	6.7	9.0	10.6	12.6	13.8	16.5	24.0	141.3	2858.8	3961.8	4215.5
75°	5.9	8.3	9.9	11.8	13.0	14.9	20.5	67.6	1901.4	2867.0	3155.5
77.5°	3.6	6.7	9.0	10.6	11.4	13.0	16.9	39.0	1213.5	1984.4	2337.4
80°	0.0	2.3	6.7	9.0	9.9	11.0	13.0	30.7	649.3	1133.7	1360.7
82.5°	0.0	0.0	4.7	7.0	6.7	7.5	9.9	19.3	292.8	741.0	835.0
85°	0.0	0.0	1.6	5.5	4.7	3.6	6.7	6.7	64.2	375.0	467.9
87.5°	0.0	0.0	0.0	0.4	2.3	1.6	2.7	0.8	0.4	27.9	113.3
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-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7	2705.7
2.5°	3058.7	3087.8	3137.0	3160.2	3148.8	3100.4	3042.5	2983.5	2948.9	2962.7
5°	3246.7	3396.7	3483.3	3512.0	3464.0	3355.3	3213.3	3026.0	2959.5	2941.4
7.5°	3246.7	3528.9	3707.6	3739.1	3632.0	3419.1	3152.7	2860.4	2763.1	2727.7
10°	3132.7	3516.7	3765.7	3815.7	3666.3	3347.9	2991.0	2657.3	2542.0	2505.5
12.5°	3004.0	3417.5	3680.0	3748.8	3626.1	3277.1	2878.9	2520.0	2384.2	2352.3
15°	2924.9	3295.6	3512.8	3562.7	3510.8	3235.7	2852.1	2478.7	2318.9	2288.2
17.5°	2953.2	3201.1	3279.4	3308.5	3343.6	3221.2	2924.9	2569.1	2366.9	2337.8
20°	3059.9	3101.6	3061.0	3097.7	3192.1	3235.4	3098.4	2787.9	2545.2	2506.2
22.5°	3240.9	3050.0	2936.3	2950.8	3065.7	3282.1	3363.6	3100.4	2820.2	2771.4
25°	3451.8	3091.7	2867.0	2854.1	2972.1	3344.0	3606.1	3440.3	3145.7	3091.7
27.5°	3717.0	3185.4	2852.8	2839.9	2939.5	3401.8	3807.5	3776.5	3488.3	3396.3
30°	3921.6	3277.5	2894.9	2865.1	2972.1	3441.9	3969.2	4061.7	3761.4	3700.5
32.5°	4068.4	3386.0	2963.4	2920.2	3064.2	3511.2	4094.0	4323.0	4014.1	3921.6
35°	4180.1	3504.1	3074.0	3002.8	3190.9	3616.3	4210.8	4601.2	4282.9	4181.7
37.5°	4284.9	3669.7	3246.7	3161.8	3389.6	3785.5	4334.4	4916.8	4583.5	4462.7
40°	4430.8	3857.4	3513.1	3437.6	3723.7	4016.1	4488.6	5245.8	4925.4	4773.5
42.5°	4576.8	4058.9	3785.9	3806.3	4140.4	4296.2	4687.8	5593.6	5263.0	5100.9
45°	4710.2	4266.7	4174.3	4268.7	4527.2	4603.6	4885.7	5794.7	5532.6	5376.0
47.5°	4829.0	4526.5	4560.3	4811.7	4967.1	4881.7	5033.6	5968.3	5733.3	5595.2
50°	4967.1	4862.5	5069.1	5424.8	5473.6	5133.6	5168.3	6173.6	5967.8	5856.8
52.5°	5118.3	5216.6	5632.5	5946.2	5930.4	5407.1	5303.6	6403.8	6289.3	6185.1
55°	5289.8	5502.7	6128.8	6434.1	6420.8	5712.5	5527.9	6688.3	6692.2	6597.8
57.5°	5544.4	5749.0	6465.6	6828.8	6851.2	6065.0	5908.0	7007.0	7056.6	6993.7
59°	5727.0	5908.8	6599.0	6993.7	7085.0	6337.7	6185.8	7192.0	7159.3	7101.9
60°	5862.4	6010.3	6665.1	7079.8	7220.7	6522.7	6390.8	7300.6	7171.5	7101.9
62.5°	6197.2	6231.5	6784.3	7177.4	7377.0	6933.5	6967.7	7485.6	7086.9	6973.2
65°	6353.4	6371.2	6782.8	7002.7	7225.8	7253.3	7491.0	7491.0	6880.3	6705.6
67.5°	6288.1	6202.7	6446.3	6423.5	6646.2	7063.3	7687.8	7216.4	6485.3	6259.4
70°	5756.9	5428.3	5320.1	5329.9	5500.3	6143.7	7298.2	6408.2	5737.6	5473.6
72.5°	4790.1	4001.9	3734.7	4039.7	4084.1	4721.6	6219.6	4825.9	4231.3	3983.8
75°	3852.7	2821.0	2386.5	2708.5	2784.0	3455.3	4811.3	3005.6	2471.5	2278.8
77.5°	2767.8	2025.0	1712.5	1690.1	1787.7	2191.4	3414.0	1512.6	1261.6	1177.3
80°	1572.5	1332.8	1435.1	1354.0	1403.3	1370.2	1622.1	663.4	543.4	508.0
82.5°	949.2	787.8	853.1	710.3	898.7	782.7	624.9	212.5	184.6	175.5
85°	617.4	430.5	224.3	150.3	309.7	500.1	139.7	57.9	44.4	35.4
87.5°	212.9	109.8	11.0	4.7	33.1	93.3	5.1	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)