

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-740-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-740-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 8842 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

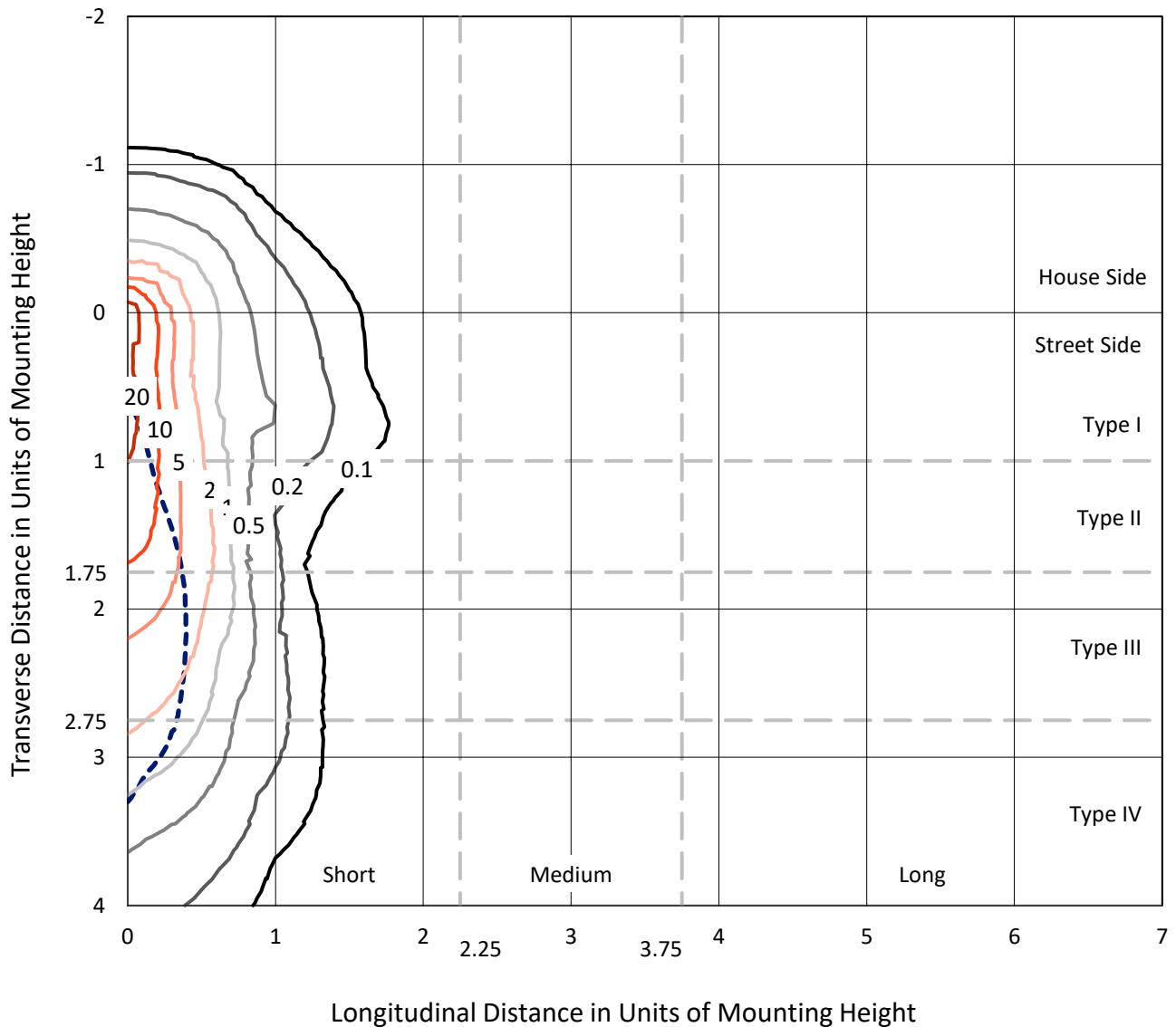
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

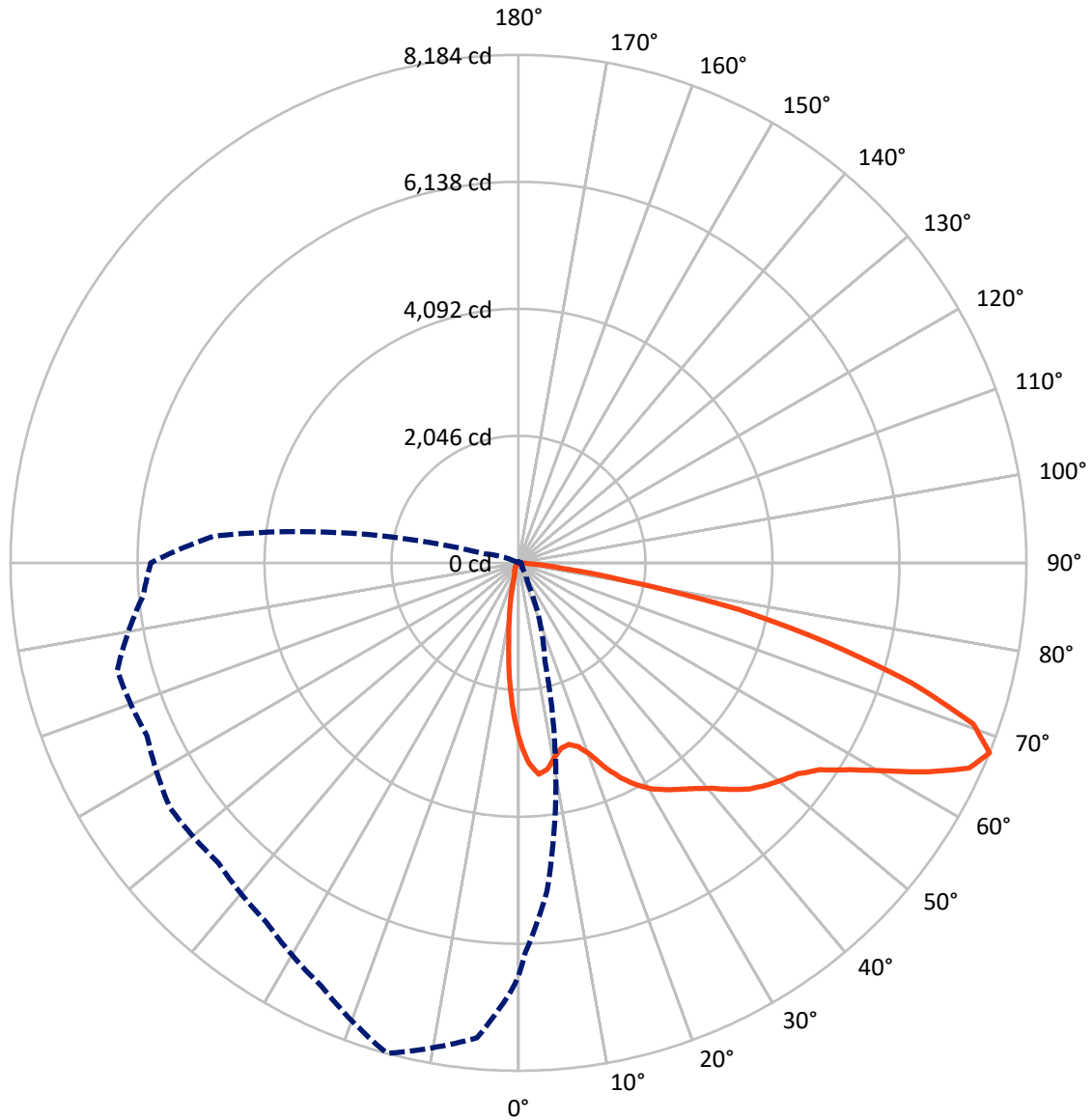
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.8 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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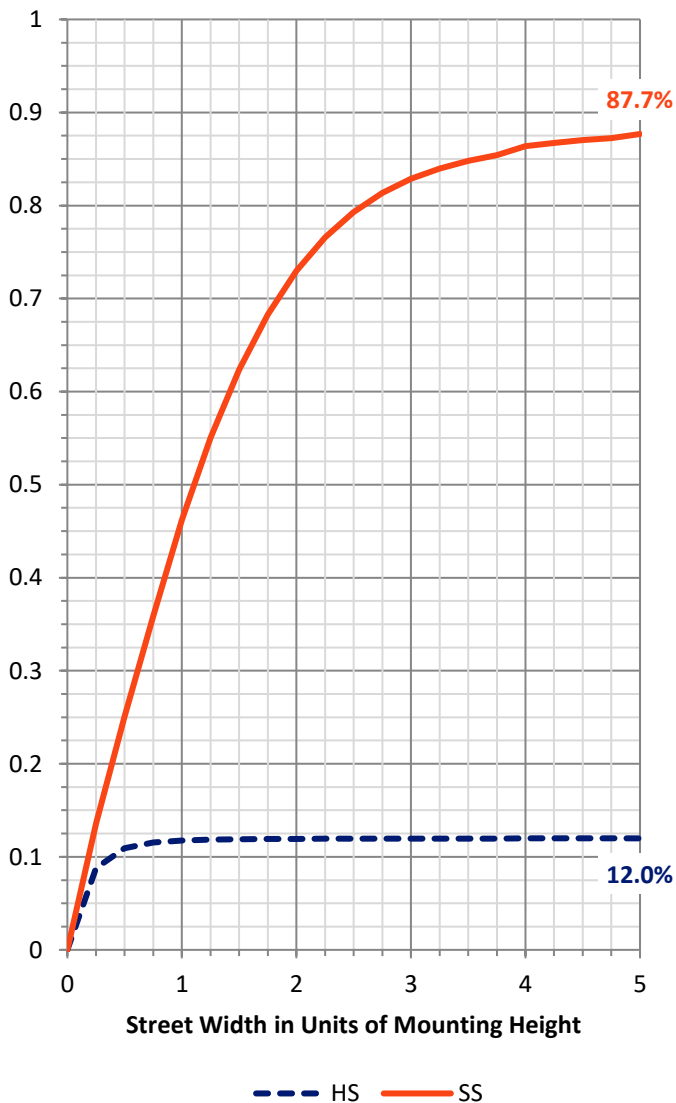
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1070.2	0.0	1070.2
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	7771.8	0.0	7771.8
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	8842.0	0.0	8842.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.1	2.5
10°-20°	440.0	5.0
20°-30°	624.8	7.1
30°-40°	922.9	10.4
40°-50°	1331.0	15.1
50°-60°	1868.5	21.1
60°-70°	2178.1	24.6
70°-80°	1113.5	12.6
80°-90°	142.2	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°	8842.0	100.0
0°-180°	8842.0	100.0

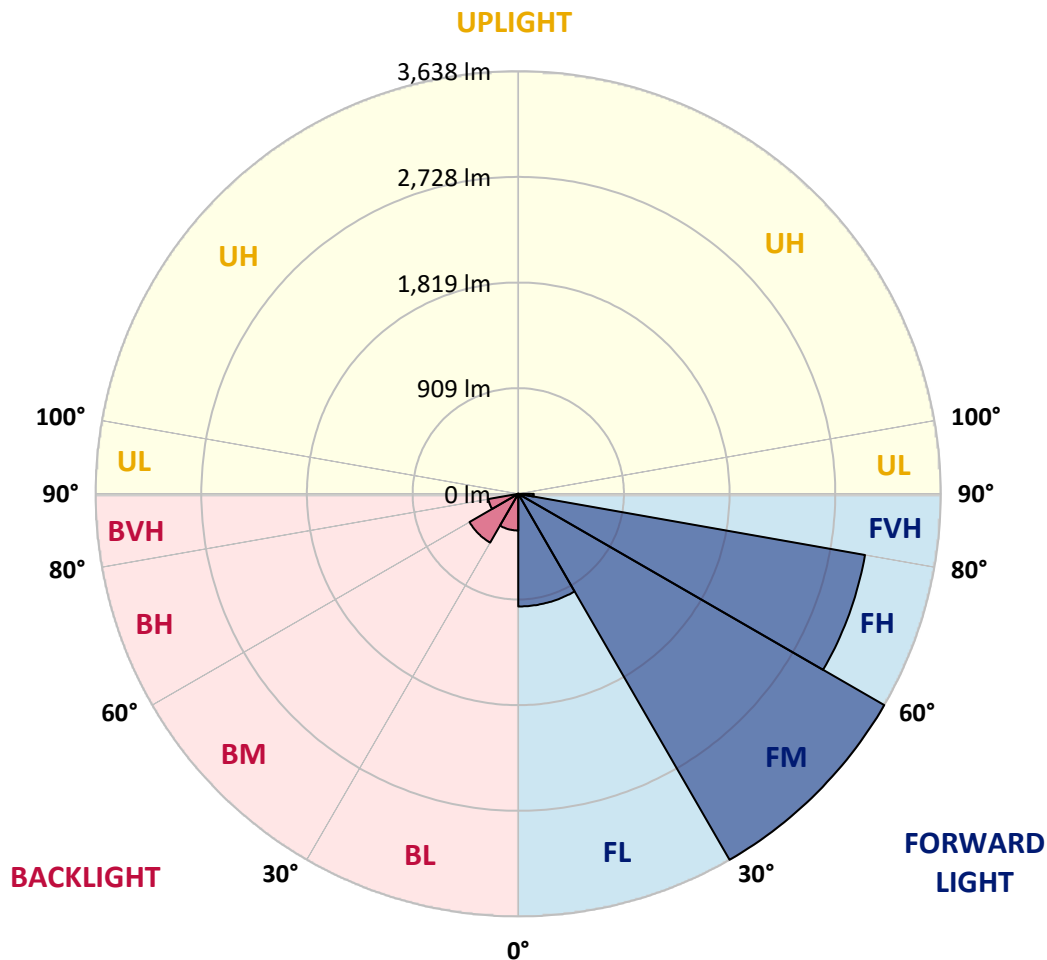


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	969.8	11.0			
FM (30°-60°)	3637.7	41.1			
FH (60°-80°)	3030.7	34.3			G2/5000
FVH (80°-90°)	133.6	1.5			G2/225
BL (0°-30°)	316.1	3.6	B1/500		
BM (30°-60°)	484.6	5.5	B1/1000		
BH (60°-80°)	260.8	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°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	3153.8	3129.5	3102.7	3015.1	2933.9	2840.9	2765.1	2712.3	2646.1	2560.2	2538.5
5°	3131.2	3105.2	3021.0	2826.2	2655.7	2489.9	2329.8	2236.0	2119.6	2001.4	1972.1
7.5°	2903.7	2876.5	2755.0	2488.2	2258.6	2019.0	1811.3	1682.7	1551.1	1443.1	1385.7
10°	2667.1	2637.3	2500.8	2177.0	1894.2	1677.6	1525.2	1402.4	1278.0	1162.4	1070.3
12.5°	2504.1	2465.1	2316.9	1949.9	1703.6	1556.6	1414.2	1267.1	1098.7	974.7	873.4
15°	2435.8	2391.4	2234.8	1862.4	1636.2	1463.6	1278.0	1097.5	900.2	758.2	665.2
17.5°	2488.6	2430.8	2262.8	1856.5	1551.6	1316.6	1082.0	870.0	656.0	512.3	446.1
20°	2667.9	2592.1	2378.9	1854.8	1448.9	1141.9	844.5	604.9	432.3	347.7	312.9
22.5°	2950.2	2850.1	2545.6	1868.2	1343.0	958.4	609.9	410.9	324.6	280.7	260.1
25°	3291.2	3175.2	2785.6	1915.6	1250.0	780.0	443.2	324.6	274.0	241.7	224.5
27.5°	3615.4	3521.2	3088.9	1983.8	1177.9	635.9	359.8	275.2	234.2	212.8	199.0
30°	3939.2	3820.7	3400.1	2065.1	1091.2	538.3	316.3	250.9	209.9	187.2	178.4
32.5°	4174.6	4076.2	3643.9	2123.8	998.6	474.6	282.7	229.5	196.0	173.0	160.0
35°	4451.5	4340.1	3852.9	2136.7	939.1	434.4	254.3	206.5	170.1	149.5	135.7
37.5°	4750.6	4611.9	4094.2	2108.3	892.6	414.7	232.9	196.0	158.8	137.8	123.2
40°	5081.5	4924.9	4325.8	2067.2	847.0	408.0	216.6	188.1	150.0	128.6	113.5
42.5°	5430.0	5245.3	4526.5	2024.1	818.1	385.0	214.9	180.1	143.3	120.2	105.1
45°	5722.8	5535.6	4732.6	2009.8	797.6	359.8	222.0	174.7	138.7	113.5	98.9
47.5°	5956.2	5779.0	4943.7	2041.7	785.8	336.8	202.3	181.8	136.1	107.7	93.4
50°	6234.7	6034.1	5241.1	2136.7	768.7	313.7	183.1	208.2	136.1	103.9	88.8
52.5°	6584.1	6385.5	5572.9	2284.2	734.3	281.9	164.6	208.6	137.4	98.9	82.9
55°	7023.5	6879.4	6046.6	2445.9	679.4	235.0	142.4	179.3	132.4	89.6	77.5
57.5°	7444.9	7327.2	6478.5	2556.5	606.1	183.5	124.0	144.5	121.1	78.8	69.1
59°	7560.1	7431.5	6636.8	2561.5	551.3	160.0	114.8	119.4	118.5	73.7	64.1
60°	7560.1	7423.5	6682.5	2534.7	511.5	147.0	108.9	106.4	123.6	70.4	61.2
62.5°	7423.1	7231.2	6534.2	2353.3	417.2	125.2	95.1	88.0	111.0	63.3	54.0
65°	7138.2	6858.9	6029.0	2025.3	372.0	114.8	82.1	72.0	77.1	55.7	47.3
67.5°	6663.2	6284.6	5300.6	1636.2	354.0	111.8	70.8	61.2	58.2	47.8	41.5
70°	5826.7	5406.6	4416.3	1286.4	338.5	110.6	59.5	51.5	46.9	40.2	35.2
72.5°	4240.8	3802.7	3135.4	1005.7	329.2	113.1	47.8	43.1	38.5	31.4	27.2
75°	2425.8	2138.8	1762.3	664.4	280.7	108.1	36.9	36.0	27.6	22.6	18.8
77.5°	1253.3	1215.2	1056.0	255.1	134.5	47.3	24.3	20.9	16.3	13.8	11.3
80°	540.8	534.9	462.9	73.7	35.6	26.4	13.8	8.8	7.5	5.9	4.6
82.5°	186.8	186.8	164.6	24.7	15.9	13.0	1.7	0.0	0.0	0.0	0.0
85°	37.7	42.3	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°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2512.1	2461.4	2458.0	2426.2	2386.4	2368.4	2357.9	2376.3	2399.0	2401.5	2435.4
5°	1949.9	1896.7	1918.9	1862.4	1873.7	1862.4	1843.9	1847.3	1857.3	1825.9	1864.9
7.5°	1369.3	1329.1	1354.7	1339.6	1359.7	1367.7	1356.4	1339.6	1290.2	1284.3	1318.2
10°	1032.1	986.5	959.3	930.8	937.0	950.0	945.8	933.7	902.3	904.0	936.6
12.5°	829.4	778.3	724.3	654.3	637.1	646.8	637.1	630.0	599.8	602.4	631.3
15°	629.2	587.3	530.7	474.6	444.0	447.0	420.1	401.3	382.4	359.8	377.4
17.5°	424.8	399.2	382.4	365.7	329.2	320.9	286.9	250.5	236.3	225.8	233.3
20°	300.8	286.9	280.2	279.4	258.5	248.0	214.9	192.3	185.1	183.1	187.7
22.5°	251.3	241.3	231.6	226.2	215.7	203.6	178.4	167.1	162.1	159.6	162.9
25°	218.7	211.1	201.1	191.9	187.7	174.7	156.7	148.3	144.9	142.4	144.1
27.5°	194.4	187.7	175.9	170.1	166.7	155.4	139.9	133.2	130.3	129.4	129.0
30°	175.1	168.8	157.9	151.2	145.4	135.3	126.1	119.4	116.5	115.6	114.8
32.5°	155.8	150.8	143.7	137.0	130.7	121.5	113.5	108.1	103.5	102.6	102.2
35°	131.5	126.5	122.7	122.3	116.5	107.7	101.8	94.7	90.9	89.6	90.1
37.5°	116.9	110.2	101.8	104.7	103.0	96.8	88.8	81.7	77.9	77.1	77.1
40°	107.7	100.5	90.9	85.9	90.9	89.6	77.1	70.0	66.2	65.8	64.9
42.5°	98.9	91.7	80.8	72.5	75.0	78.8	66.6	59.9	56.1	55.3	54.0
45°	92.6	85.0	72.9	63.3	58.2	66.2	57.0	48.6	46.5	44.8	44.0
47.5°	86.7	79.6	65.8	54.9	46.5	47.8	45.7	39.8	37.3	35.6	35.2
50°	81.7	74.1	59.5	46.9	38.5	35.2	36.9	31.4	29.3	27.6	26.8
52.5°	75.8	68.7	52.8	40.6	32.3	27.6	28.1	24.7	22.6	21.4	20.9
55°	71.2	64.1	47.3	35.6	28.5	22.6	20.1	19.3	18.0	17.2	16.8
57.5°	64.9	58.2	41.9	30.2	24.3	18.4	15.5	15.5	15.1	14.2	13.8
59°	61.2	55.3	38.5	27.2	22.2	15.9	13.8	14.2	13.8	13.0	12.6
60°	58.2	52.8	36.0	25.1	20.9	14.7	12.6	13.4	13.0	12.1	11.7
62.5°	51.5	47.8	31.0	20.9	18.4	11.7	10.5	11.3	11.3	10.9	10.5
65°	45.2	41.1	26.4	17.6	17.2	10.1	8.4	10.1	10.5	9.6	8.8
67.5°	39.4	35.2	23.0	14.2	15.9	8.0	6.3	8.4	11.3	8.8	8.0
70°	33.5	29.3	18.0	11.3	16.8	5.4	5.0	7.5	13.4	9.6	7.5
72.5°	26.0	22.6	12.6	8.4	18.0	3.8	3.8	6.3	15.1	10.5	7.1
75°	18.0	14.7	7.5	5.0	14.7	2.5	2.5	5.9	14.2	9.6	6.7
77.5°	10.5	8.0	2.5	0.4	7.5	0.0	0.4	4.2	10.1	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°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	2444.2	2500.8	2551.4	2628.1	2719.0	2823.7	2913.8	3010.5	3101.4	3139.1	3165.1
5°	1872.8	1942.8	2024.5	2137.2	2287.1	2471.9	2644.9	2840.5	3050.8	3155.9	3254.7
7.5°	1324.1	1395.3	1496.7	1616.5	1797.9	2017.8	2244.0	2514.2	2799.0	2965.3	3129.1
10°	952.1	1039.7	1134.3	1298.1	1482.4	1691.0	1923.9	2225.5	2543.1	2727.4	2924.7
12.5°	648.0	747.7	891.0	1074.4	1291.0	1495.4	1697.7	1985.5	2354.1	2536.8	2748.3
15°	388.7	444.0	595.7	808.0	1073.6	1328.3	1549.9	1838.5	2231.4	2455.1	2675.0
17.5°	239.6	265.2	347.7	521.9	800.9	1123.0	1426.7	1788.6	2249.0	2521.3	2756.7
20°	191.0	201.1	227.5	308.3	530.7	896.8	1288.1	1778.6	2392.7	2727.8	2980.4
22.5°	165.9	175.5	193.1	224.1	333.9	671.5	1156.5	1787.8	2598.8	3037.3	3332.2
25°	146.2	154.6	171.3	196.9	244.6	472.9	1015.8	1828.9	2867.3	3421.5	3734.8
27.5°	130.7	137.8	153.3	176.8	209.9	330.1	856.2	1878.7	3185.6	3814.4	4123.5
30°	116.5	122.7	136.6	158.3	182.2	253.8	681.1	1912.6	3504.4	4123.5	4401.2
32.5°	104.3	108.9	121.5	139.9	158.3	202.3	517.7	1907.2	3741.1	4380.7	4601.1
35°	91.7	96.3	107.2	123.2	137.8	167.1	407.2	1805.4	3947.2	4647.5	4829.8
37.5°	77.9	83.8	94.2	108.5	118.5	147.0	329.2	1682.7	4156.2	4952.5	5084.9
40°	66.2	72.0	81.3	96.8	103.0	139.5	253.0	1533.1	4391.2	5293.5	5364.7
42.5°	54.9	60.3	70.0	83.4	97.2	120.2	187.2	1362.2	4617.0	5585.0	5619.8
45°	44.4	49.8	59.9	73.3	103.9	99.7	144.9	1179.2	4799.2	5827.6	5838.9
47.5°	35.2	40.2	50.7	69.1	96.8	79.6	103.5	1035.5	4952.1	6016.9	5987.1
50°	27.2	31.4	42.3	79.2	84.6	65.8	78.3	987.7	5089.1	6134.2	6057.1
52.5°	21.4	25.1	34.8	74.1	65.8	54.5	65.8	1032.6	5276.7	6231.4	6096.5
55°	17.2	20.9	27.2	42.3	44.8	46.1	56.1	1074.4	5600.5	6459.2	6329.0
57.5°	14.2	18.0	22.2	29.7	33.9	39.0	49.8	1079.1	5982.1	6837.9	6714.8
59°	13.0	16.3	20.1	26.4	29.7	35.6	46.9	1053.9	6116.6	6975.7	6914.1
60°	12.1	15.5	18.8	24.3	27.6	33.5	45.2	1030.0	6122.4	6970.7	6999.2
62.5°	10.5	13.8	16.8	20.5	23.5	28.5	40.6	941.7	5874.5	6742.4	6948.1
65°	9.2	12.1	15.1	17.6	20.1	25.6	36.9	780.4	5451.0	6374.2	6598.3
67.5°	8.4	10.5	13.8	15.5	18.0	22.6	32.7	556.3	4921.9	5923.9	6069.2
70°	7.5	10.1	12.6	14.2	16.3	19.7	28.1	319.6	4156.2	5264.6	5368.0
72.5°	7.1	9.6	11.3	13.4	14.7	17.6	25.6	150.4	3043.2	4217.4	4487.5
75°	6.3	8.8	10.5	12.6	13.8	15.9	21.8	72.0	2024.1	3052.0	3359.1
77.5°	3.8	7.1	9.6	11.3	12.1	13.8	18.0	41.5	1291.8	2112.4	2488.2
80°	0.0	2.5	7.1	9.6	10.5	11.7	13.8	32.7	691.2	1206.8	1448.5
82.5°	0.0	0.0	5.0	7.5	7.1	8.0	10.5	20.5	311.7	788.8	888.9
85°	0.0	0.0	1.7	5.9	5.0	3.8	7.1	7.1	68.3	399.2	498.1
87.5°	0.0	0.0	0.0	0.4	2.5	1.7	2.9	0.8	0.4	29.7	120.6
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-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3	2880.3
2.5°	3256.0	3287.0	3339.4	3364.1	3351.9	3300.4	3238.8	3176.0	3139.1	3153.8
5°	3456.2	3615.8	3708.0	3738.6	3687.5	3571.8	3420.6	3221.2	3150.4	3131.2
7.5°	3456.2	3756.6	3946.8	3980.3	3866.3	3639.7	3356.1	3044.9	2941.4	2903.7
10°	3334.8	3743.6	4008.7	4061.9	3902.8	3563.9	3184.0	2828.7	2706.0	2667.1
12.5°	3197.8	3638.0	3917.4	3990.7	3860.0	3488.5	3064.6	2682.6	2538.0	2504.1
15°	3113.6	3508.2	3739.4	3792.6	3737.3	3444.5	3036.1	2638.6	2468.5	2435.8
17.5°	3143.7	3407.6	3491.0	3522.0	3559.3	3429.0	3113.6	2734.9	2519.6	2488.6
20°	3257.3	3301.7	3258.5	3297.5	3398.0	3444.1	3298.3	2967.8	2709.4	2667.9
22.5°	3450.0	3246.8	3125.7	3141.2	3263.5	3493.9	3580.6	3300.4	3002.2	2950.2
25°	3674.5	3291.2	3052.0	3038.2	3163.9	3559.7	3838.7	3662.3	3348.6	3291.2
27.5°	3956.8	3390.9	3036.9	3023.1	3129.1	3621.3	4053.1	4020.1	3713.4	3615.4
30°	4174.6	3488.9	3081.7	3049.9	3163.9	3664.0	4225.3	4323.7	4004.1	3939.2
32.5°	4330.9	3604.5	3154.6	3108.6	3261.9	3737.7	4358.1	4601.9	4273.1	4174.6
35°	4449.8	3730.2	3272.3	3196.5	3396.8	3849.6	4482.5	4898.0	4559.2	4451.5
37.5°	4561.3	3906.5	3456.2	3365.8	3608.3	4029.7	4614.0	5234.0	4879.2	4750.6
40°	4716.7	4106.3	3739.8	3659.4	3963.9	4275.2	4778.2	5584.2	5243.2	5081.5
42.5°	4872.1	4320.8	4030.1	4051.9	4407.5	4573.4	4990.2	5954.5	5602.6	5430.0
45°	5014.1	4542.0	4443.6	4544.1	4819.3	4900.6	5200.9	6168.5	5889.5	5722.8
47.5°	5140.6	4818.5	4854.5	5122.1	5287.6	5196.7	5358.4	6353.3	6103.2	5956.2
50°	5287.6	5176.2	5396.1	5774.8	5826.7	5464.8	5501.7	6571.9	6352.8	6234.7
52.5°	5448.5	5553.2	5995.9	6329.8	6313.0	5755.9	5645.8	6817.0	6695.1	6584.1
55°	5631.1	5857.7	6524.2	6849.2	6835.0	6081.0	5884.5	7119.8	7124.0	7023.5
57.5°	5902.1	6119.9	6882.7	7269.4	7293.2	6456.3	6289.2	7459.1	7511.9	7444.9
59°	6096.5	6290.0	7024.7	7444.9	7542.1	6746.6	6584.9	7656.0	7621.2	7560.1
60°	6240.6	6398.1	7095.1	7536.6	7686.6	6943.5	6803.1	7771.6	7634.2	7560.1
62.5°	6597.0	6633.5	7222.0	7640.5	7852.9	7380.8	7417.2	7968.5	7544.1	7423.1
65°	6763.3	6782.2	7220.4	7454.5	7692.0	7721.3	7974.3	7974.3	7324.2	7138.2
67.5°	6693.8	6602.9	6862.2	6837.9	7075.0	7519.0	8183.8	7682.0	6903.7	6663.2
70°	6128.3	5778.5	5663.3	5673.8	5855.2	6540.1	7769.1	6821.6	6107.8	5826.7
72.5°	5099.1	4260.1	3975.7	4300.3	4347.6	5026.2	6620.9	5137.2	4504.3	4240.8
75°	4101.3	3003.0	2540.5	2883.2	2963.6	3678.2	5121.7	3199.5	2631.0	2425.8
77.5°	2946.4	2155.6	1823.0	1799.1	1903.0	2332.8	3634.3	1610.2	1343.0	1253.3
80°	1673.9	1418.8	1527.7	1441.4	1493.8	1458.6	1726.7	706.2	578.5	540.8
82.5°	1010.4	838.6	908.1	756.1	956.7	833.2	665.2	226.2	196.5	186.8
85°	657.2	458.3	238.8	160.0	329.7	532.4	148.7	61.6	47.3	37.7
87.5°	226.6	116.9	11.7	5.0	35.2	99.3	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)