

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: P387064

Luminaire Tested: GAW-SA2D-740-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387064  
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-740-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 12004 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

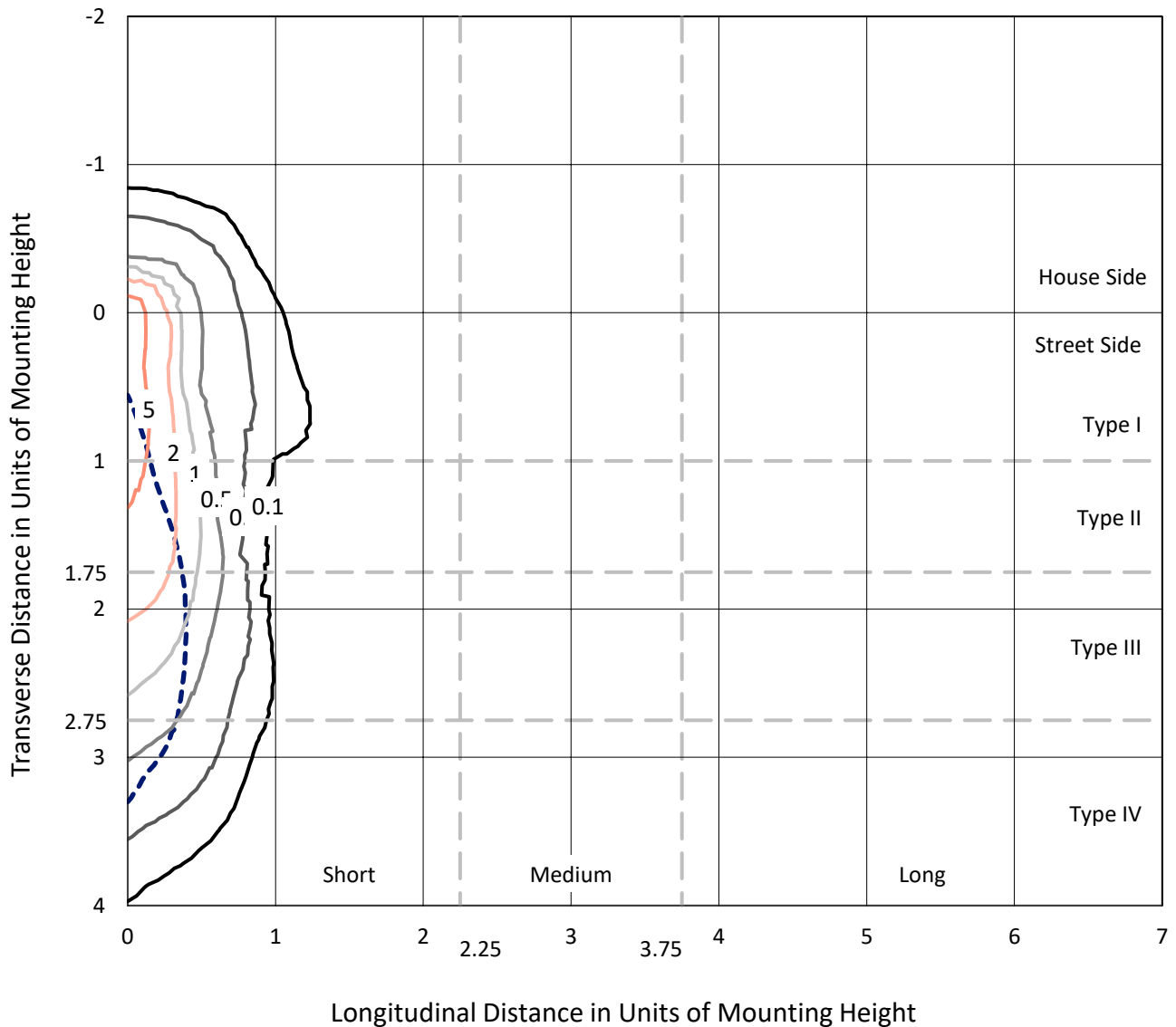
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

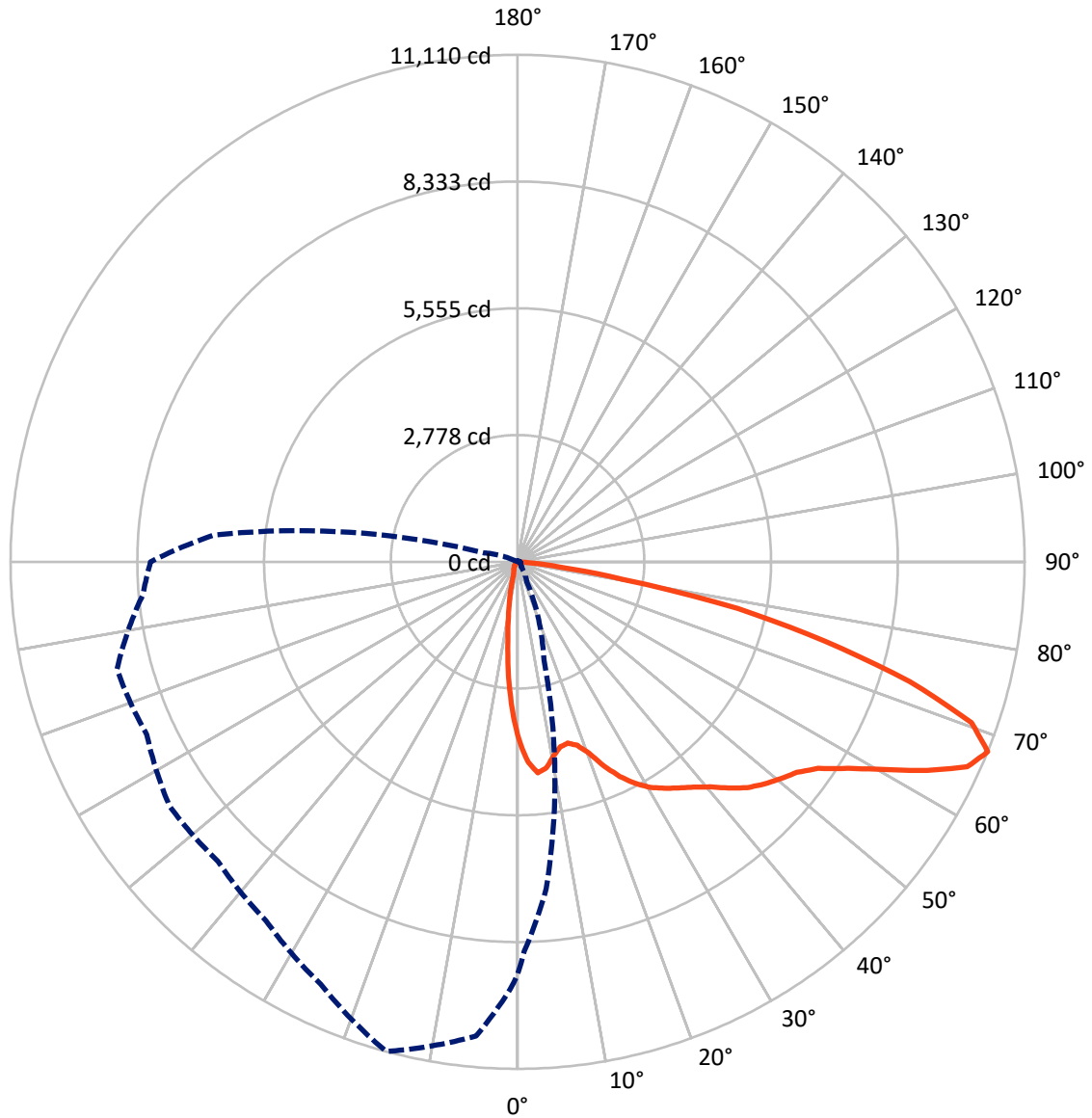
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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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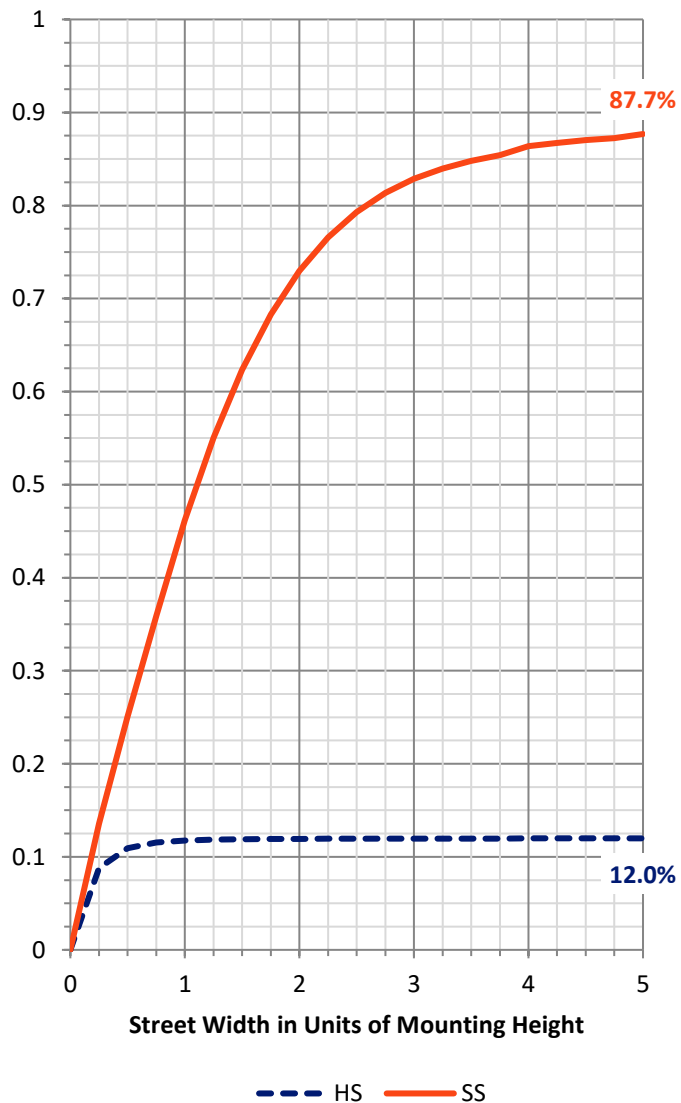
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1452.9	0.0	1452.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10551.1	0.0	10551.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	12004.0	0.0	12004.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.1	2.5
10°-20°	597.4	5.0
20°-30°	848.3	7.1
30°-40°	1252.9	10.4
40°-50°	1807.0	15.1
50°-60°	2536.6	21.1
60°-70°	2957.0	24.6
70°-80°	1511.7	12.6
80°-90°	193.1	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°	12004.0	100.0
0°-180°	12004.0	100.0

**Coefficient of Utilization**

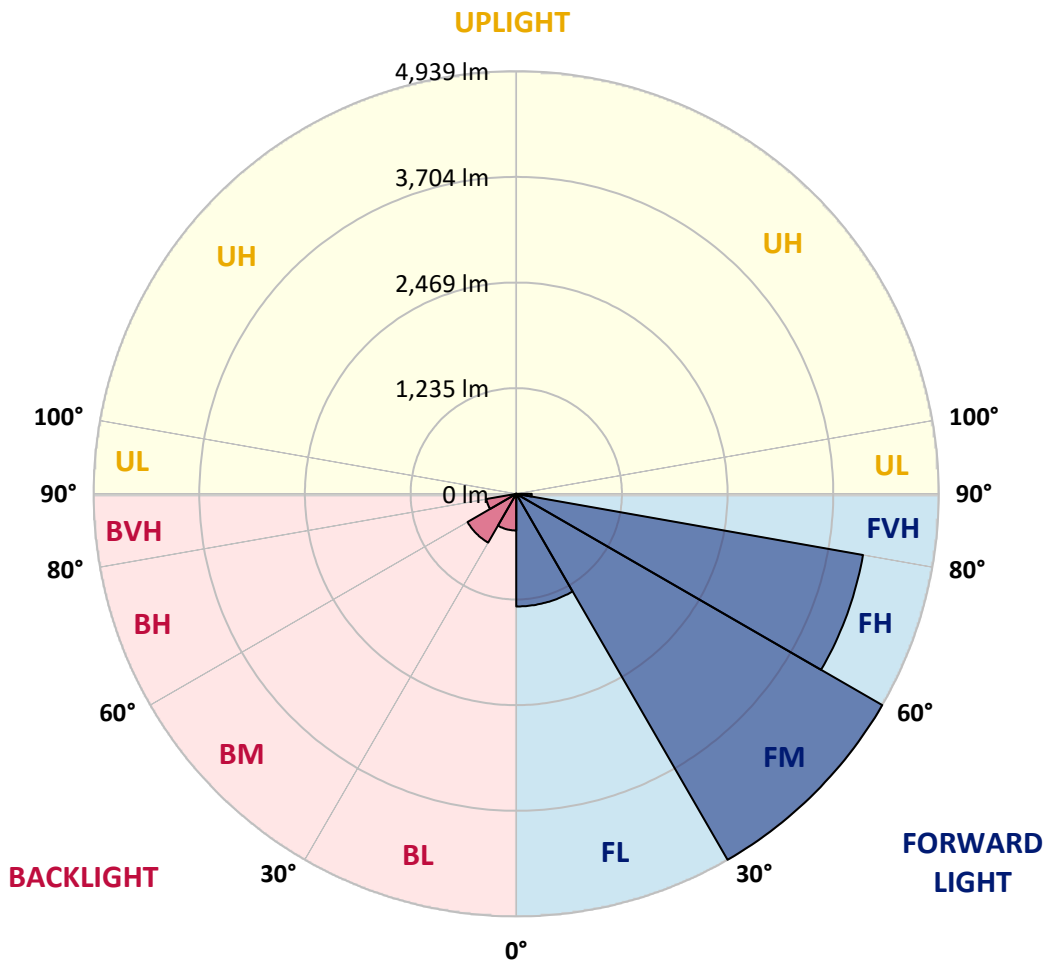


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.6	11.0			
FM (30°-60°)	4938.6	41.1			
FH (60°-80°)	4114.5	34.3			G2/5000
FVH (80°-90°)	181.3	1.5			G2/225
BL (0°-30°)	429.1	3.6	B1/500		
BM (30°-60°)	657.9	5.5	B1/1000		
BH (60°-80°)	354.1	2.9	B1/500		G1/500
BVH (80°-90°)	11.7	0.1			G1/100
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°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	4281.6	4248.6	4212.3	4093.4	3983.1	3856.8	3753.9	3682.2	3592.4	3475.8	3446.2
5°	4250.9	4215.7	4101.4	3836.9	3605.5	3380.3	3163.0	3035.6	2877.5	2717.2	2677.4
7.5°	3942.1	3905.2	3740.2	3378.0	3066.4	2741.1	2459.0	2284.4	2105.8	1959.1	1881.2
10°	3620.8	3580.4	3395.1	2955.5	2571.6	2277.6	2070.6	1904.0	1735.1	1578.1	1453.0
12.5°	3399.6	3346.7	3145.4	2647.2	2312.8	2113.2	1919.9	1720.3	1491.7	1323.3	1185.7
15°	3306.9	3246.6	3033.9	2528.4	2221.3	1987.0	1735.1	1490.0	1222.1	1029.3	903.1
17.5°	3378.6	3300.1	3072.0	2520.4	2106.4	1787.4	1468.9	1181.2	890.6	695.5	605.6
20°	3622.0	3519.0	3229.6	2518.1	1967.1	1550.2	1146.5	821.2	586.9	472.0	424.8
22.5°	4005.3	3869.3	3455.9	2536.3	1823.2	1301.2	828.0	557.9	440.7	381.0	353.2
25°	4468.2	4310.6	3781.8	2600.6	1697.0	1058.9	601.7	440.7	371.9	328.1	304.8
27.5°	4908.3	4780.4	4193.5	2693.3	1599.1	863.3	488.5	373.6	317.9	288.9	270.1
30°	5347.9	5187.0	4616.0	2803.6	1481.4	730.8	429.4	340.6	284.9	254.2	242.3
32.5°	5667.5	5533.9	4947.0	2883.2	1355.7	644.3	383.9	311.6	266.1	234.9	217.2
35°	6043.4	5892.1	5230.8	2900.9	1275.0	589.7	345.2	280.4	230.9	203.0	184.3
37.5°	6449.5	6261.2	5558.3	2862.2	1211.9	563.0	316.2	266.1	215.5	187.1	167.2
40°	6898.7	6686.0	5872.8	2806.5	1149.9	553.9	294.0	255.3	203.6	174.6	154.1
42.5°	7371.9	7121.1	6145.2	2747.9	1110.6	522.6	291.7	244.5	194.5	163.2	142.7
45°	7769.4	7515.2	6425.0	2728.6	1082.8	488.5	301.4	237.1	188.2	154.1	134.2
47.5°	8086.1	7845.6	6711.6	2771.8	1066.9	457.2	274.7	246.8	184.8	146.2	126.8
50°	8464.3	8191.9	7115.4	2900.9	1043.5	425.9	248.5	282.6	184.8	141.0	120.6
52.5°	8938.6	8669.0	7565.8	3101.0	996.9	382.7	223.5	283.2	186.5	134.2	112.6
55°	9535.1	9339.5	8209.0	3320.6	922.4	319.0	193.4	243.4	179.7	121.7	105.2
57.5°	10107.2	9947.4	8795.3	3470.7	822.9	249.1	168.3	196.2	164.4	106.9	93.8
59°	10263.6	10089.0	9010.3	3477.5	748.4	217.2	155.8	162.1	160.9	100.1	87.0
60°	10263.6	10078.2	9072.2	3441.1	694.4	199.6	147.9	144.4	167.8	95.5	83.0
62.5°	10077.7	9817.2	8870.9	3194.9	566.4	170.0	129.1	119.4	150.7	85.9	73.4
65°	9691.0	9311.7	8185.1	2749.6	505.0	155.8	111.5	97.8	104.6	75.6	64.3
67.5°	9046.1	8532.0	7196.1	2221.3	480.5	151.8	96.1	83.0	79.0	64.8	56.3
70°	7910.4	7340.0	5995.7	1746.4	459.5	150.1	80.8	69.9	63.7	54.6	47.8
72.5°	5757.4	5162.5	4256.6	1365.4	447.0	153.5	64.8	58.6	52.3	42.7	37.0
75°	3293.3	2903.7	2392.5	901.9	381.0	146.7	50.0	48.9	37.5	30.7	25.6
77.5°	1701.5	1649.8	1433.7	346.3	182.5	64.3	33.0	28.4	22.2	18.8	15.4
80°	734.2	726.2	628.4	100.1	48.3	35.8	18.8	11.9	10.2	8.0	6.3
82.5°	253.6	253.6	223.5	33.6	21.6	17.6	2.3	0.0	0.0	0.0	0.0
85°	51.2	57.4	40.4	0.0	7.4	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°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	3410.4	3341.6	3337.0	3293.8	3239.8	3215.3	3201.1	3226.2	3256.9	3260.3	3306.3
5°	2647.2	2575.0	2605.1	2528.4	2543.7	2528.4	2503.4	2507.9	2521.6	2478.9	2531.8
7.5°	1859.0	1804.4	1839.1	1818.7	1846.0	1856.8	1841.4	1818.7	1751.6	1743.6	1789.7
10°	1401.2	1339.3	1302.3	1263.6	1272.1	1289.8	1284.1	1267.6	1224.9	1227.2	1271.6
12.5°	1126.0	1056.6	983.3	888.3	865.0	878.1	865.0	855.3	814.4	817.8	857.0
15°	854.2	797.3	720.5	644.3	602.8	606.8	570.4	544.8	519.2	488.5	512.4
17.5°	576.6	542.0	519.2	496.5	447.0	435.6	389.5	340.1	320.7	306.5	316.8
20°	408.3	389.5	380.5	379.3	350.9	336.7	291.7	261.0	251.4	248.5	254.8
22.5°	341.2	327.6	314.5	307.1	292.9	276.4	242.3	226.9	220.1	216.7	221.2
25°	296.9	286.6	273.0	260.5	254.8	237.1	212.7	201.3	196.8	193.4	195.6
27.5°	263.9	254.8	238.8	230.9	226.3	211.0	189.9	180.8	176.9	175.7	175.2
30°	237.7	229.2	214.4	205.3	197.3	183.7	171.2	162.1	158.1	157.0	155.8
32.5°	211.6	204.7	195.1	186.0	177.4	164.9	154.1	146.7	140.5	139.3	138.8
35°	178.6	171.7	166.6	166.1	158.1	146.2	138.2	128.5	123.4	121.7	122.3
37.5°	158.7	149.6	138.2	142.2	139.9	131.4	120.6	110.9	105.8	104.6	104.6
40°	146.2	136.5	123.4	116.6	123.4	121.7	104.6	95.0	89.9	89.3	88.1
42.5°	134.2	124.5	109.8	98.4	101.8	106.9	90.4	81.3	76.2	75.1	73.4
45°	125.7	115.4	99.0	85.9	79.0	89.9	77.3	66.0	63.1	60.8	59.7
47.5°	117.7	108.1	89.3	74.5	63.1	64.8	62.0	54.0	50.6	48.3	47.8
50°	110.9	100.7	80.8	63.7	52.3	47.8	50.0	42.7	39.8	37.5	36.4
52.5°	102.9	93.3	71.7	55.2	43.8	37.5	38.1	33.6	30.7	29.0	28.4
55°	96.7	87.0	64.3	48.3	38.7	30.7	27.3	26.2	24.5	23.3	22.7
57.5°	88.1	79.0	56.9	40.9	33.0	25.0	21.0	21.0	20.5	19.3	18.8
59°	83.0	75.1	52.3	37.0	30.1	21.6	18.8	19.3	18.8	17.6	17.1
60°	79.0	71.7	48.9	34.1	28.4	19.9	17.1	18.2	17.6	16.5	15.9
62.5°	69.9	64.8	42.1	28.4	25.0	15.9	14.2	15.4	15.4	14.8	14.2
65°	61.4	55.7	35.8	23.9	23.3	13.6	11.4	13.6	14.2	13.1	11.9
67.5°	53.5	47.8	31.3	19.3	21.6	10.8	8.5	11.4	15.4	11.9	10.8
70°	45.5	39.8	24.5	15.4	22.7	7.4	6.8	10.2	18.2	13.1	10.2
72.5°	35.3	30.7	17.1	11.4	24.5	5.1	5.1	8.5	20.5	14.2	9.7
75°	24.5	19.9	10.2	6.8	19.9	3.4	3.4	8.0	19.3	13.1	9.1
77.5°	14.2	10.8	3.4	0.6	10.2	0.0	0.6	5.7	13.6	8.0	4.0
80°	5.1	2.3	0.0	0.0	6.3	0.0	0.0	0.0	1.1	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°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	3318.3	3395.1	3463.9	3567.9	3691.3	3833.5	3955.8	4087.1	4210.5	4261.7	4297.0
5°	2542.6	2637.6	2748.5	2901.4	3105.0	3355.8	3590.7	3856.3	4141.7	4284.5	4418.7
7.5°	1797.6	1894.3	2031.9	2194.6	2440.8	2739.4	3046.4	3413.2	3800.0	4025.7	4248.1
10°	1292.6	1411.5	1540.0	1762.4	2012.6	2295.8	2612.0	3021.4	3452.5	3702.7	3970.6
12.5°	879.8	1015.1	1209.6	1458.7	1752.7	2030.2	2304.9	2695.6	3196.0	3444.0	3731.1
15°	527.7	602.8	808.7	1097.0	1457.5	1803.3	2104.1	2496.0	3029.4	3333.1	3631.6
17.5°	325.3	360.0	472.0	708.6	1087.3	1524.6	1936.9	2428.3	3053.3	3422.9	3742.5
20°	259.3	273.0	308.8	418.6	720.5	1217.6	1748.7	2414.6	3248.3	3703.3	4046.2
22.5°	225.2	238.3	262.2	304.2	453.2	911.6	1570.1	2427.1	3528.1	4123.5	4523.9
25°	198.5	209.8	232.6	267.3	332.1	642.0	1379.1	2482.9	3892.7	4645.0	5070.4
27.5°	177.4	187.1	208.1	240.0	284.9	448.1	1162.4	2550.6	4324.9	5178.4	5598.1
30°	158.1	166.6	185.4	215.0	247.4	344.6	924.7	2596.6	4757.6	5598.1	5975.2
32.5°	141.6	147.9	164.9	189.9	215.0	274.7	702.9	2589.2	5078.9	5947.3	6246.4
35°	124.5	130.8	145.6	167.2	187.1	226.9	552.8	2451.0	5358.7	6309.6	6556.9
37.5°	105.8	113.7	128.0	147.3	160.9	199.6	447.0	2284.4	5642.5	6723.6	6903.3
40°	89.9	97.8	110.3	131.4	139.9	189.4	343.5	2081.4	5961.5	7186.5	7283.2
42.5°	74.5	81.9	95.0	113.2	131.9	163.2	254.2	1849.4	6268.1	7582.3	7629.5
45°	60.3	67.7	81.3	99.5	141.0	135.3	196.8	1600.8	6515.4	7911.6	7926.9
47.5°	47.8	54.6	68.8	93.8	131.4	108.1	140.5	1405.8	6723.0	8168.6	8128.2
50°	37.0	42.7	57.4	107.5	114.9	89.3	106.3	1341.0	6909.0	8327.8	8223.2
52.5°	29.0	34.1	47.2	100.7	89.3	73.9	89.3	1401.8	7163.7	8459.8	8276.6
55°	23.3	28.4	37.0	57.4	60.8	62.6	76.2	1458.7	7603.3	8769.1	8592.3
57.5°	19.3	24.5	30.1	40.4	46.1	52.9	67.7	1464.9	8121.4	9283.2	9116.0
59°	17.6	22.2	27.3	35.8	40.4	48.3	63.7	1430.8	8303.9	9470.3	9386.7
60°	16.5	21.0	25.6	33.0	37.5	45.5	61.4	1398.4	8311.9	9463.5	9502.2
62.5°	14.2	18.8	22.7	27.9	31.8	38.7	55.2	1278.4	7975.2	9153.6	9432.8
65°	12.5	16.5	20.5	23.9	27.3	34.7	50.0	1059.5	7400.3	8653.7	8957.9
67.5°	11.4	14.2	18.8	21.0	24.5	30.7	44.4	755.2	6682.1	8042.3	8239.7
70°	10.2	13.6	17.1	19.3	22.2	26.7	38.1	433.9	5642.5	7147.2	7287.7
72.5°	9.7	13.1	15.4	18.2	19.9	23.9	34.7	204.2	4131.5	5725.5	6092.3
75°	8.5	11.9	14.2	17.1	18.8	21.6	29.6	97.8	2747.9	4143.4	4560.3
77.5°	5.1	9.7	13.1	15.4	16.5	18.8	24.5	56.3	1753.8	2867.9	3378.0
80°	0.0	3.4	9.7	13.1	14.2	15.9	18.8	44.4	938.3	1638.4	1966.5
82.5°	0.0	0.0	6.8	10.2	9.7	10.8	14.2	27.9	423.1	1070.8	1206.8
85°	0.0	0.0	2.3	8.0	6.8	5.1	9.7	9.7	92.7	542.0	676.2
87.5°	0.0	0.0	0.0	0.6	3.4	2.3	4.0	1.1	0.6	40.4	163.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P387064

CATALOG NUMBER: GAW-SA2D-740-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3	3910.3
2.5°	4420.4	4462.5	4533.6	4567.1	4550.6	4480.7	4397.1	4311.8	4261.7	4281.6
5°	4692.2	4908.9	5034.0	5075.5	5006.1	4849.2	4643.9	4373.2	4277.1	4250.9
7.5°	4692.2	5100.0	5358.2	5403.6	5249.0	4941.3	4556.3	4133.8	3993.3	3942.1
10°	4527.3	5082.3	5442.3	5514.5	5298.4	4838.4	4322.6	3840.3	3673.7	3620.8
12.5°	4341.3	4939.0	5318.3	5417.9	5240.4	4736.0	4160.5	3641.9	3445.7	3399.6
15°	4227.0	4762.7	5076.7	5148.9	5073.8	4676.3	4121.8	3582.1	3351.3	3306.9
17.5°	4268.0	4626.3	4739.4	4781.5	4832.1	4655.3	4227.0	3712.9	3420.6	3378.6
20°	4422.1	4482.4	4423.8	4476.7	4613.2	4675.7	4477.8	4029.1	3678.3	3622.0
22.5°	4683.7	4407.9	4243.5	4264.6	4430.6	4743.4	4861.1	4480.7	4075.8	4005.3
25°	4988.5	4468.2	4143.4	4124.7	4295.3	4832.7	5211.4	4972.0	4546.1	4468.2
27.5°	5371.8	4603.5	4123.0	4104.2	4248.1	4916.3	5502.6	5457.7	5041.4	4908.3
30°	5667.5	4736.6	4183.8	4140.6	4295.3	4974.3	5736.3	5870.0	5436.1	5347.9
32.5°	5879.6	4893.5	4282.8	4220.2	4428.4	5074.4	5916.6	6247.6	5801.2	5667.5
35°	6041.1	5064.1	4442.6	4339.6	4611.5	5226.2	6085.5	6649.6	6189.6	6043.4
37.5°	6192.4	5303.6	4692.2	4569.4	4898.7	5470.8	6264.1	7105.7	6624.0	6449.5
40°	6403.4	5574.8	5077.2	4968.0	5381.5	5804.0	6487.0	7581.1	7118.2	6898.7
42.5°	6614.4	5866.0	5471.3	5500.9	5983.7	6208.9	6774.7	8083.9	7606.2	7371.9
45°	6807.2	6166.3	6032.6	6169.1	6542.7	6653.1	7060.8	8374.5	7995.7	7769.4
47.5°	6978.9	6541.6	6590.5	6953.9	7178.5	7055.1	7274.6	8625.3	8285.7	8086.1
50°	7178.5	7027.2	7325.8	7839.9	7910.4	7419.1	7469.1	8922.1	8624.7	8464.3
52.5°	7396.9	7539.1	8140.2	8593.4	8570.7	7814.3	7664.7	9254.8	9089.3	8938.6
55°	7644.8	7952.5	8857.3	9298.6	9279.2	8255.6	7988.9	9665.9	9671.6	9535.1
57.5°	8012.8	8308.5	9344.1	9869.0	9901.4	8765.1	8538.2	10126.6	10198.2	10107.2
59°	8276.6	8539.4	9536.9	10107.2	10239.2	9159.2	8939.7	10393.9	10346.7	10263.6
60°	8472.3	8686.1	9632.4	10231.8	10435.4	9426.5	9236.0	10550.8	10364.3	10263.6
62.5°	8956.2	9005.7	9804.7	10372.8	10661.1	10020.2	10069.7	10818.1	10242.0	10077.7
65°	9182.0	9207.6	9802.4	10120.3	10442.8	10482.6	10826.1	10826.1	9943.5	9691.0
67.5°	9087.6	8964.2	9316.2	9283.2	9605.1	10207.9	11110.4	10429.1	9372.5	9046.1
70°	8319.9	7845.0	7688.6	7702.8	7949.1	8878.9	10547.4	9261.0	8292.0	7910.4
72.5°	6922.6	5783.5	5397.4	5838.1	5902.4	6823.7	8988.6	6974.4	6115.1	5757.4
75°	5568.0	4076.9	3449.1	3914.3	4023.4	4993.6	6953.3	4343.6	3571.9	3293.3
77.5°	4000.1	2926.5	2474.9	2442.5	2583.5	3167.0	4933.9	2186.0	1823.2	1701.5
80°	2272.5	1926.1	2074.0	1956.8	2027.9	1980.2	2344.1	958.8	785.4	734.2
82.5°	1371.7	1138.5	1232.9	1026.5	1298.9	1131.1	903.1	307.1	266.7	253.6
85°	892.3	622.1	324.2	217.2	447.6	722.8	201.9	83.6	64.3	51.2
87.5°	307.7	158.7	15.9	6.8	47.8	134.8	7.4	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)