

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P451886

Luminaire Tested: **GALN-SA2D-740-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY 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: 11172 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

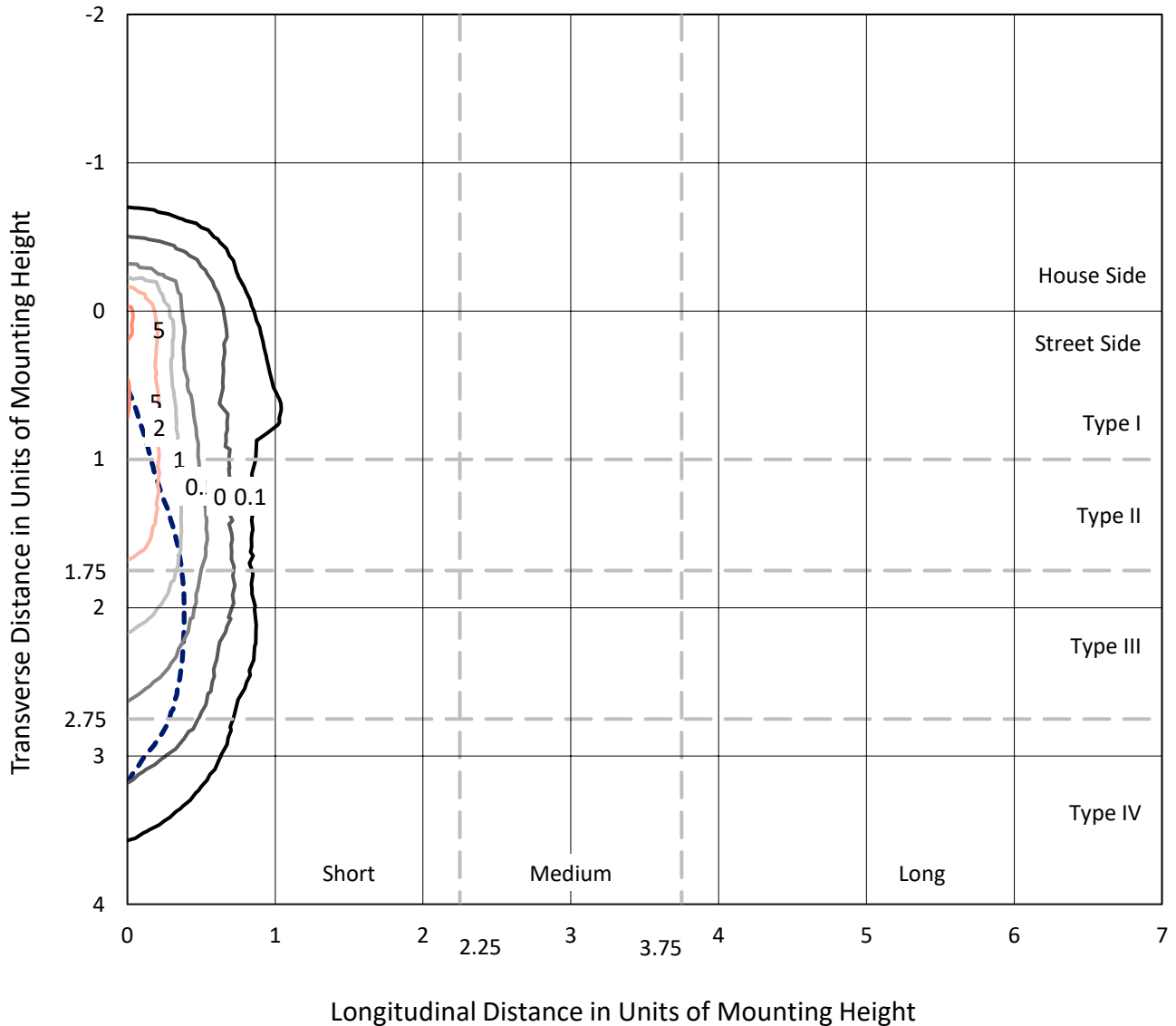
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

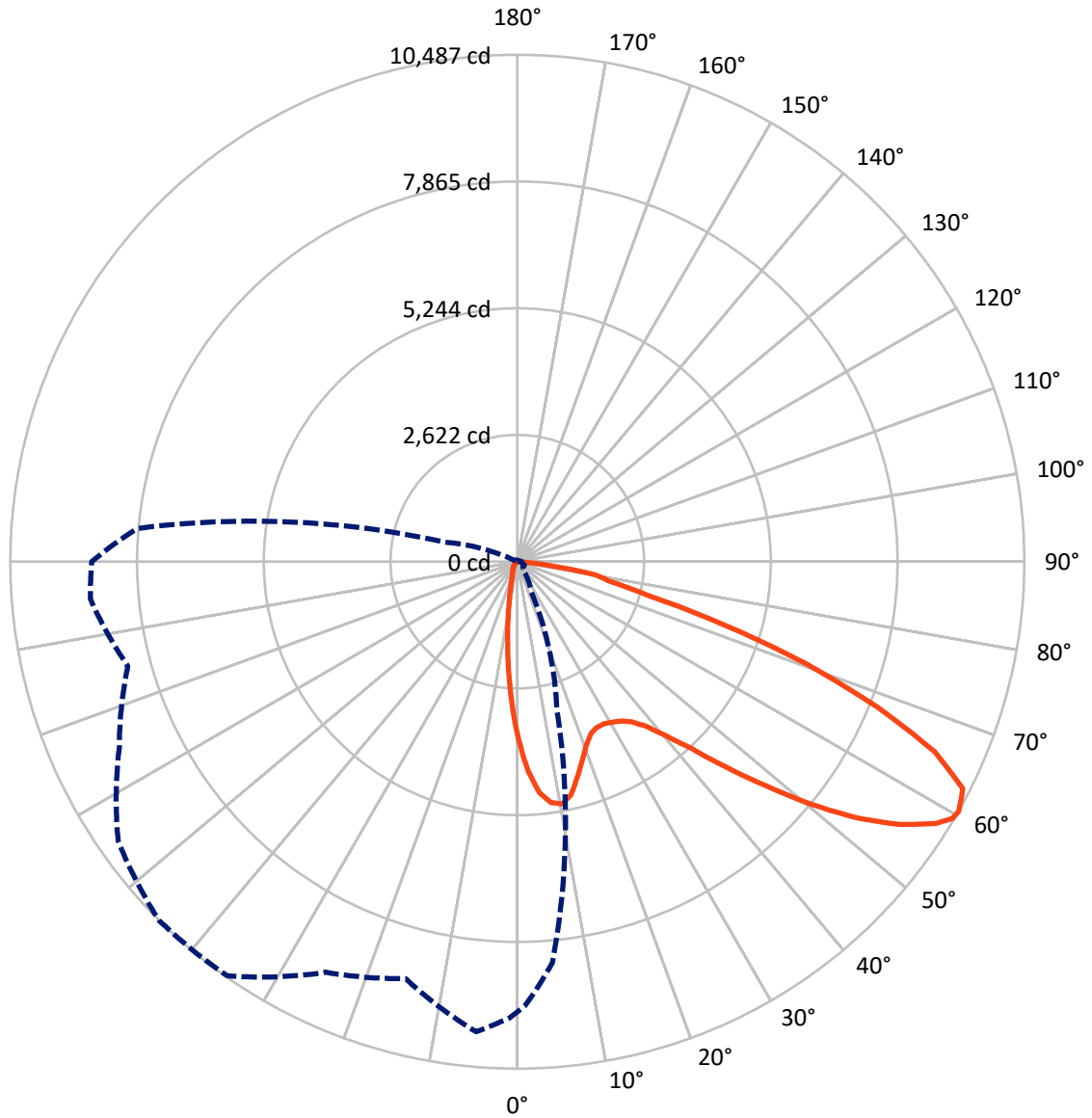
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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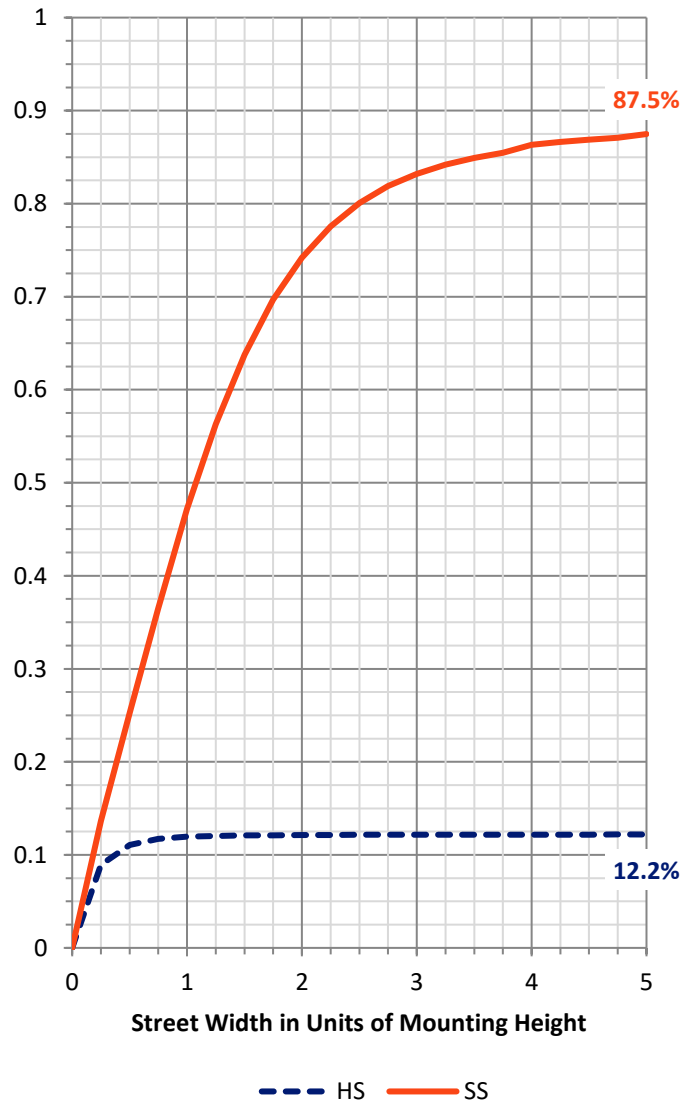
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1377.9	0.0	1377.9
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	9794.0	0.0	9794.0
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	11172.0	0.0	11172.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	2.5
10°-20°	545.4	4.9
20°-30°	799.7	7.2
30°-40°	1189.4	10.6
40°-50°	1730.9	15.5
50°-60°	2496.1	22.3
60°-70°	2745.4	24.6
70°-80°	1229.7	11.0
80°-90°	160.7	1.4
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°	11172.0	100.0
0°-180°	11172.0	100.0



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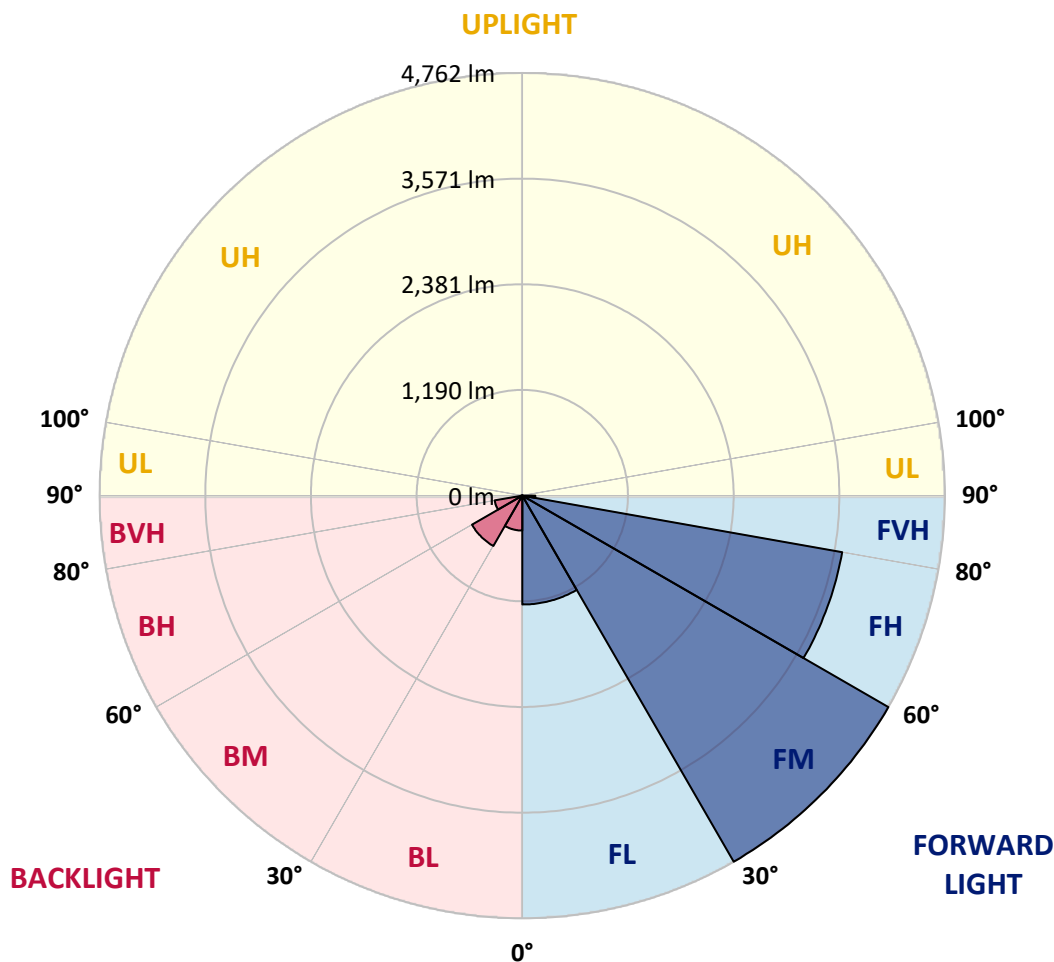
CATALOG NUMBER: GALN-SA2D-740-U-SLR-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1226.1	11.0			
FM (30°-60°)	4761.8	42.6			
FH (60°-80°)	3659.2	32.8			G2/5000
FVH (80°-90°)	146.9	1.3			G2/225
BL (0°-30°)	393.7	3.5	B1/500		
BM (30°-60°)	654.5	5.9	B1/1000		
BH (60°-80°)	316.0	2.8	B1/500		G1/500
BVH (80°-90°)	13.7	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	4059.4	4041.5	4000.8	3876.8	3768.9	3628.0	3485.3	3373.2	3304.4	3177.9	3120.1
5°	3932.8	3941.3	3823.3	3568.5	3284.9	3091.2	2879.8	2711.6	2526.5	2409.3	2286.2
7.5°	3602.5	3585.5	3457.3	3102.3	2757.5	2477.2	2209.7	1992.3	1855.6	1746.0	1654.3
10°	3319.7	3306.9	3143.0	2686.2	2315.9	2106.1	1925.2	1735.0	1588.1	1427.6	1299.3
12.5°	3142.2	3113.3	2924.8	2447.5	2146.0	1950.7	1753.7	1555.8	1352.8	1190.6	1035.2
15°	3082.7	3041.1	2831.4	2365.1	2037.3	1789.4	1542.2	1314.6	1081.1	901.9	784.7
17.5°	3190.6	3121.8	2898.5	2350.7	1907.4	1578.7	1274.7	978.3	735.4	598.7	526.5
20°	3437.7	3358.8	3068.3	2336.3	1763.0	1342.7	969.0	691.3	508.7	434.0	394.0
22.5°	3804.6	3695.9	3319.7	2359.2	1629.7	1112.5	699.8	488.3	404.2	357.5	329.5
25°	4245.4	4154.5	3638.2	2440.7	1524.4	931.6	541.0	399.1	340.5	311.7	290.4
27.5°	4728.6	4583.4	4050.0	2538.4	1428.4	791.5	474.7	356.7	303.2	276.9	265.8
30°	5072.5	4959.6	4394.8	2606.3	1308.7	686.2	434.0	351.6	304.0	272.6	252.2
32.5°	5412.2	5267.9	4683.6	2637.7	1221.2	613.2	375.4	306.6	266.7	250.5	230.1
35°	5775.7	5624.5	4971.5	2620.8	1155.8	564.7	340.5	273.5	228.4	201.3	180.9
37.5°	6143.4	5983.8	5257.7	2559.6	1115.1	545.2	313.4	259.9	215.7	187.7	165.6
40°	6579.9	6366.8	5526.0	2509.5	1072.6	535.0	295.5	251.4	206.4	176.6	154.6
42.5°	6936.6	6733.6	5779.9	2483.2	1043.7	511.2	295.5	244.6	200.4	167.3	144.4
45°	7274.6	7064.0	6054.2	2504.4	1031.8	481.5	298.9	243.7	196.2	160.5	137.6
47.5°	7557.4	7374.8	6336.2	2584.2	1016.5	449.2	281.1	255.6	193.6	154.6	130.8
50°	7891.2	7714.5	6709.0	2745.6	989.4	417.0	259.0	275.2	192.8	149.5	124.8
52.5°	8361.6	8170.6	7223.7	2929.0	946.1	367.7	238.6	272.6	189.4	141.0	118.9
55°	8936.6	8782.0	7819.8	3149.0	886.6	312.5	206.4	242.0	179.2	126.5	108.7
57.5°	9305.1	9173.5	8266.5	3244.1	795.7	255.6	181.7	203.0	163.9	112.9	96.8
59°	9348.5	9229.6	8359.9	3212.7	736.3	233.5	169.8	174.1	159.7	105.3	90.0
60°	9311.9	9188.8	8322.6	3151.5	681.1	218.3	159.7	154.6	160.5	101.1	84.9
62.5°	9077.6	8866.9	7959.9	2841.6	595.3	200.4	141.8	126.5	141.8	90.9	75.6
65°	8624.9	8309.0	7242.3	2405.1	561.3	190.2	120.6	106.2	107.9	79.8	65.4
67.5°	7834.3	7436.0	6286.9	1954.1	546.9	191.1	101.9	95.1	83.2	67.9	57.7
70°	6584.2	6186.7	5044.5	1607.6	540.1	191.1	86.6	81.5	69.6	56.9	50.1
72.5°	4665.7	4237.7	3402.9	1262.8	486.6	190.2	73.9	73.9	56.9	47.6	40.8
75°	2636.0	2639.4	2139.2	893.4	404.2	157.1	59.4	58.6	41.6	36.5	30.6
77.5°	1536.3	1509.1	1442.0	383.9	187.7	71.3	41.6	35.7	28.9	26.3	22.1
80°	789.8	649.7	632.7	139.3	67.1	45.0	28.9	20.4	18.7	17.0	15.3
82.5°	233.5	234.4	208.9	56.0	37.4	29.7	14.4	11.0	10.2	9.3	9.3
85°	16.1	10.2	11.9	17.0	22.9	11.9	0.8	2.5	2.5	3.4	4.2
87.5°	1.7	0.8	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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3056.4	3093.8	3024.2	3025.9	2968.1	2986.8	2918.8	2940.9	2901.0	2931.6	3021.6
5°	2299.7	2308.2	2252.2	2234.4	2242.8	2277.7	2291.3	2229.3	2255.6	2203.8	2200.4
7.5°	1620.4	1630.5	1598.3	1594.0	1655.2	1640.7	1667.1	1603.4	1543.1	1569.4	1521.0
10°	1258.6	1216.1	1149.9	1131.2	1119.3	1126.9	1126.9	1069.2	1060.7	1037.8	1072.6
12.5°	993.6	941.8	879.0	794.0	772.8	771.1	739.7	688.7	672.6	653.1	681.9
15°	721.9	700.6	648.0	600.4	552.0	542.7	491.7	450.1	394.9	387.3	384.7
17.5°	507.8	476.4	475.6	448.4	420.4	401.7	354.1	306.6	285.3	282.8	282.8
20°	380.5	369.4	351.6	348.2	339.7	318.5	276.0	250.5	240.3	241.2	244.6
22.5°	320.2	312.5	296.4	288.7	285.3	266.7	235.2	218.3	213.2	213.2	214.0
25°	286.2	279.4	261.6	249.7	245.4	231.8	207.2	194.5	190.2	190.2	190.2
27.5°	260.7	252.2	233.5	223.4	215.7	200.4	185.1	172.4	168.1	168.1	169.0
30°	242.9	233.5	216.6	203.0	191.1	177.5	164.8	153.7	148.6	147.8	148.6
32.5°	219.1	210.6	193.6	185.1	171.5	155.4	145.2	135.0	129.9	130.8	129.9
35°	170.7	168.1	156.3	158.8	151.2	137.6	128.2	117.2	111.3	110.4	112.1
37.5°	155.4	145.2	131.6	132.5	129.9	124.8	109.6	97.7	93.4	93.4	94.3
40°	143.5	133.3	118.0	110.4	111.3	111.3	95.1	82.4	78.1	77.3	79.0
42.5°	133.3	123.1	106.2	93.4	90.0	94.3	80.7	67.9	63.7	62.0	63.7
45°	126.5	115.5	96.0	81.5	71.3	76.4	66.2	56.0	51.0	51.0	50.1
47.5°	119.7	109.6	88.3	70.5	59.4	56.9	54.4	45.0	39.9	39.1	39.9
50°	113.8	103.6	79.8	61.1	50.1	44.2	44.2	35.7	32.3	30.6	31.4
52.5°	107.9	96.8	72.2	54.4	43.3	35.7	31.4	28.9	26.3	25.5	26.3
55°	99.4	88.3	64.5	46.7	37.4	29.7	24.6	23.8	22.1	20.4	22.1
57.5°	89.2	79.0	56.9	39.9	29.7	22.9	20.4	19.5	17.8	17.0	17.0
59°	83.2	73.9	52.7	34.8	26.3	20.4	18.7	17.8	16.1	14.4	15.3
60°	79.8	72.2	50.1	32.3	23.8	18.7	17.0	16.1	14.4	13.6	14.4
62.5°	70.5	64.5	44.2	26.3	18.7	13.6	11.9	12.7	11.9	11.0	11.9
65°	62.0	56.9	37.4	20.4	14.4	9.3	8.5	11.0	10.2	9.3	10.2
67.5°	55.2	49.3	31.4	15.3	10.2	5.1	5.9	9.3	9.3	8.5	9.3
70°	47.6	42.5	25.5	11.0	5.1	2.5	4.2	6.8	8.5	7.6	8.5
72.5°	39.1	33.1	19.5	7.6	2.5	0.0	2.5	5.9	8.5	7.6	8.5
75°	30.6	24.6	14.4	4.2	0.0	0.0	0.8	5.1	8.5	7.6	8.5
77.5°	22.1	17.8	8.5	0.8	0.0	0.0	0.8	5.1	8.5	7.6	8.5
80°	14.4	12.7	3.4	0.0	0.0	0.0	0.8	5.1	8.5	8.5	9.3
82.5°	9.3	6.8	0.0	0.0	0.0	0.0	1.7	6.8	9.3	10.2	10.2
85°	4.2	0.0	0.0	0.0	0.0	0.0	3.4	8.5	11.0	11.0	11.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.9	10.2	12.7	12.7	12.7
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°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	3036.9	3090.4	3166.0	3282.3	3376.6	3525.2	3639.0	3794.4	3951.5	3999.1	4073.0
5°	2235.2	2304.0	2475.5	2631.8	2730.3	3044.5	3243.3	3556.6	3837.7	3972.8	4119.7
7.5°	1552.4	1633.9	1764.7	1983.0	2190.2	2445.8	2766.8	3125.2	3537.1	3729.9	3937.1
10°	1089.6	1191.5	1375.8	1555.0	1815.7	2058.6	2375.3	2771.1	3225.4	3453.0	3712.9
12.5°	687.9	778.8	1022.5	1223.8	1549.0	1831.0	2123.1	2481.5	3008.0	3241.6	3514.2
15°	393.2	469.6	583.4	841.6	1202.5	1575.3	1939.7	2355.8	2896.8	3184.7	3479.3
17.5°	293.0	313.4	364.3	510.4	839.1	1274.7	1770.7	2317.6	2972.3	3310.3	3646.6
20°	246.3	259.9	283.6	341.4	535.0	981.7	1605.9	2324.4	3216.9	3641.6	3960.9
22.5°	220.8	229.3	248.8	286.2	365.2	715.1	1413.1	2364.3	3513.3	4048.3	4416.9
25°	193.6	204.7	221.7	253.9	304.0	496.0	1222.9	2453.5	3928.6	4564.7	4911.2
27.5°	172.4	182.6	199.6	229.3	266.7	378.8	1001.3	2529.9	4366.8	5084.4	5368.1
30°	151.2	161.4	178.3	202.1	236.1	306.6	762.6	2574.9	4792.3	5474.2	5692.5
32.5°	133.3	141.8	158.0	179.2	207.2	259.9	601.3	2528.2	5117.5	5828.4	5974.4
35°	115.5	125.7	139.3	158.8	183.4	221.7	500.2	2366.8	5396.9	6192.7	6245.3
37.5°	96.8	108.7	123.1	141.0	160.5	203.8	401.7	2188.5	5695.9	6647.0	6560.4
40°	81.5	92.6	106.2	125.7	143.5	186.8	309.1	1998.3	6018.6	7073.3	6904.3
42.5°	66.2	78.1	94.3	112.1	141.8	163.1	239.5	1801.2	6308.2	7444.5	7215.2
45°	52.7	62.8	79.8	102.8	141.0	140.1	185.1	1606.8	6526.4	7709.4	7447.0
47.5°	41.6	50.1	67.1	100.2	129.9	118.9	148.6	1486.2	6755.7	7948.1	7624.5
50°	33.1	41.6	57.7	104.5	113.8	101.9	124.8	1505.7	6977.4	8069.5	7697.5
52.5°	28.0	36.5	50.1	82.4	87.5	89.2	109.6	1595.7	7263.6	8199.4	7842.8
55°	24.6	32.3	42.5	57.7	67.9	79.8	100.2	1661.1	7646.6	8478.0	8162.9
57.5°	19.5	28.0	38.2	49.3	56.0	69.6	92.6	1666.2	7993.1	8835.5	8588.4
59°	17.8	25.5	35.7	46.7	50.1	62.8	87.5	1622.9	8005.8	8889.0	8783.7
60°	16.1	24.6	34.0	43.3	47.6	59.4	83.2	1572.8	7890.3	8804.1	8864.4
62.5°	13.6	21.2	29.7	34.8	40.8	49.3	72.2	1391.1	7330.7	8419.4	8714.9
65°	11.9	18.7	25.5	28.9	34.0	42.5	63.7	1113.4	6712.4	7898.0	8286.9
67.5°	11.0	17.0	22.1	24.6	29.7	39.1	56.9	786.4	5911.6	7236.4	7644.0
70°	10.2	16.1	19.5	22.9	26.3	33.1	48.4	458.6	4553.6	6076.3	6506.9
72.5°	10.2	15.3	17.0	19.5	22.9	29.7	45.0	248.0	3113.3	4635.2	5191.4
75°	10.2	14.4	15.3	17.0	20.4	27.2	39.9	129.9	2012.7	3220.3	3974.5
77.5°	10.2	13.6	15.3	16.1	19.5	23.8	34.8	81.5	1341.0	2255.6	2686.2
80°	11.0	13.6	14.4	16.1	18.7	22.1	28.9	54.4	788.1	1357.1	1634.8
82.5°	11.9	13.6	15.3	17.0	19.5	21.2	25.5	34.0	363.5	897.6	1015.7
85°	12.7	14.4	16.1	17.8	20.4	21.2	23.8	24.6	59.4	405.1	547.8
87.5°	13.6	15.3	17.0	18.7	22.1	22.1	22.1	22.1	20.4	43.3	110.4
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: P451886

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

**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5	3692.5
2.5°	4166.4	4262.3	4329.4	4346.4	4298.0	4275.9	4214.8	4119.7	4061.9	4059.4
5°	4390.6	4615.6	4771.9	4798.2	4704.8	4546.8	4359.2	4117.1	3975.3	3932.8
7.5°	4352.4	4746.4	4997.8	5034.3	4877.2	4575.7	4212.2	3822.4	3667.9	3602.5
10°	4195.3	4675.9	5035.2	5092.9	4883.1	4458.5	3996.5	3561.7	3369.8	3319.7
12.5°	4061.1	4546.8	4866.2	4946.0	4787.2	4363.4	3867.4	3394.4	3188.9	3142.2
15°	4002.5	4394.0	4589.3	4630.1	4603.7	4304.0	3853.9	3368.9	3133.7	3082.7
17.5°	4061.1	4264.0	4288.7	4330.3	4388.9	4298.0	3984.6	3507.4	3253.4	3190.6
20°	4214.8	4151.1	4049.2	4067.0	4201.2	4322.6	4217.3	3813.9	3504.8	3437.7
22.5°	4476.4	4123.1	3892.1	3876.8	4046.6	4405.0	4558.7	4229.2	3870.8	3804.6
25°	4797.4	4193.6	3834.3	3801.2	3986.3	4525.6	4929.9	4737.9	4346.4	4245.4
27.5°	5147.3	4339.6	3834.3	3802.1	3981.2	4632.6	5247.5	5188.0	4839.0	4728.6
30°	5339.2	4460.2	3889.5	3853.0	4044.1	4694.6	5417.3	5588.0	5209.3	5072.5
32.5°	5510.7	4627.5	3997.4	3928.6	4175.7	4786.3	5569.3	5927.7	5503.9	5412.2
35°	5668.7	4806.7	4146.0	4066.2	4349.0	4912.0	5737.5	6284.4	5914.1	5775.7
37.5°	5842.8	5014.8	4377.8	4309.9	4638.6	5156.6	5937.1	6753.2	6317.5	6143.4
40°	6032.2	5256.0	4759.2	4730.3	5098.9	5433.5	6189.3	7253.4	6777.8	6579.9
42.5°	6224.9	5533.7	5226.2	5273.8	5620.3	5821.6	6448.3	7638.1	7154.9	6936.6
45°	6399.9	5888.6	5833.4	6068.7	6228.3	6200.3	6640.2	7909.0	7483.5	7274.6
47.5°	6620.7	6405.8	6568.0	6930.7	6934.9	6612.2	6785.4	8130.6	7766.3	7557.4
50°	6867.8	7016.4	7516.6	7886.1	7786.7	7017.3	6955.3	8393.1	8058.5	7891.2
52.5°	7154.0	7700.1	8393.1	8803.2	8571.4	7458.9	7238.1	8676.7	8522.1	8361.6
55°	7486.9	8166.3	9266.9	9593.9	9360.3	8007.5	7667.8	9061.4	9046.1	8936.6
57.5°	7863.1	8658.9	9773.1	10215.5	10007.5	8651.2	8268.2	9424.0	9366.3	9305.1
59°	8160.4	8911.9	9996.4	10455.0	10329.3	9102.2	8671.6	9649.9	9440.2	9348.5
60°	8340.4	9083.5	10078.8	10487.3	10458.4	9370.5	8927.2	9760.3	9439.3	9311.9
62.5°	8874.6	9383.3	10047.4	10343.8	10456.7	9885.2	9677.1	9881.8	9264.4	9077.6
65°	9064.8	9283.9	9526.8	9490.3	9587.1	9858.9	10156.1	9748.5	8890.7	8624.9
67.5°	8694.5	8194.3	8280.1	8036.4	7988.8	8765.0	9961.6	9096.2	8159.5	7834.3
70°	7329.0	6277.6	6234.3	6346.4	6039.0	7096.3	8945.1	7840.2	6952.7	6584.2
72.5°	5768.9	4436.4	4071.3	4484.0	4474.7	5413.9	7430.9	5563.4	4697.2	4665.7
75°	4536.7	3088.7	2710.8	2777.9	2907.0	3919.3	5918.4	3532.8	2892.5	2636.0
77.5°	3045.4	2188.5	2041.6	1959.2	2098.5	2516.3	3744.3	1915.9	1622.1	1536.3
80°	1755.4	1589.8	1805.5	1639.0	1713.8	1585.5	1862.4	879.0	729.5	789.8
82.5°	1142.2	905.3	964.7	716.8	980.0	988.5	597.9	259.9	220.0	233.5
85°	714.2	424.6	238.6	169.8	338.0	621.6	186.8	16.1	18.7	16.1
87.5°	185.1	70.5	29.7	44.2	54.4	48.4	43.3	2.5	0.8	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)